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4 CONTINUING CONCERNS WITH THE FEDERAL SELECT AGENT PROGRAM:

5 DEPARTMENT OF DEFENSE SHIPMENTS OF LIVE ANTHRAX

6 TUESDAY, JULY 28, 2015

7 House of Representatives,

8 Subcommittee on Oversight and Investigations

9 Committee on Energy and Commerce

10 Washington, D.C.

11 The Subcommittee met, pursuant to call, at 10:02 a.m.,
12 in Room 2123 of the Rayburn House Office Building, Hon. Tim
13 Murphy [Chairman of the Subcommittee] presiding.

14 Members present: Representatives Murphy, McKinley,
15 Burgess, Blackburn, Griffith, Bucshon, Flores, Brooks,
16 Mullin, Hudson, Collins, DeGette, Schakowsky, Castor, Tonko,

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17 Kennedy, Green, Welch, and Pallone (ex officio).

18 Staff present: Noelle Clemente, Press Secretary;

19 Jessica Donlon, Counsel, Oversight and Investigations;

20 Brittany Havens, Oversight Associate, Oversight and

21 Investigations; Jessica Wilkerson, Oversight Associate,

22 Oversight and Investigations; Christine Brennan, Democratic

23 Press Secretary; Jeff Carroll, Democratic Staff Director;

24 Ryan Gottschall, Democratic GAO Detailee; Chris Knauer,

25 Democratic Oversight Staff Director; Una Lee, Democratic

26 Chief Oversight Counsel; and Elizabeth Letter, Democratic

27 Professional Staff Member.

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|
28 Mr. {Murphy.} Good morning. Welcome to our hearing
29 once again dealing with anthrax. The Subcommittee today
30 examines continuing concerns over the Federal Select Agent
31 Program. This time our focus is on shipments of live anthrax
32 from a Department of Defense laboratory at the Dugway Proving
33 Grounds that occurred over a nearly 10-year period.

34 And as Yogi Berra said, it is like déjà vu all over again.

35 Last year, we held a similar hearing on a CDC anthrax
36 incident that potentially exposed dozens of CDC researchers
37 to live anthrax, due to the fact that established safety
38 procedures were not followed. During the hearing CDC
39 Director Frieden testified, ``We will take every step
40 possible to prevent any future incident that could put our
41 laboratory scientists and the public at risk.'' Yet here we
42 are again today.

43 We also examined CDC's mistaken shipment of highly
44 pathogenic avian flu and the FDA's discovery of vials of
45 smallpox in an NIH building. Months after our hearing and
46 after a White House-ordered safety stand-down and a
47 laboratory sweep of all federal labs, the CDC revealed there

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48 had been a transfer of Ebola from a CDC Level 4 lab to a CDC
49 Level 2 lab. This is all deeply troubling. And despite the
50 growing number of red flags, these incidents keep happening.

51 Now we have learned that the Dugway Proving Grounds, an
52 Army lab in Utah, has inadvertently shipped live anthrax to
53 facilities across the globe. At last count, at least 192
54 labs have received shipments of live anthrax. Apparently,
55 Dugway's process to inactivate anthrax spores was not fully
56 effective. And the sterility testing used to validate and
57 ensure that the anthrax spores were inactivated failed to
58 detect the live anthrax spores. What is most troubling,
59 however, is that Dugway used this potentially deadly process
60 for years.

61 As I said at last year's hearing, this is completely
62 unacceptable. These dangerous safety lapses at our high-
63 containment labs are threatening our Nation's security and
64 public health. The Committee hopes to learn today what is
65 being done this time to prevent future safety lapses. And
66 will this be any different?

67 Last week, the Department of Defense released a report
68 following its internal review of the circumstances

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69 surrounding the live shipments of anthrax, and according to
70 its report, the DoD was unable to definitively determine the
71 root causes for how and why Dugway shipped live anthrax.
72 Yet, in the report, the Department acknowledged that all its
73 labs ``routinely operate outside validated experimental data
74 for kill curves.''

75 So in other words, it seems that Department of Defense
76 labs have been irradiating larger numbers of spores than
77 recommended. And the labs should have known that they could
78 not guarantee inactivation of all the anthrax spores at those
79 numbers, especially at the dosage of radiation given.

80 This revelation begs a lot of questions, beginning with
81 why? And why for so long? Who was responsible for making
82 the decisions about which inactivation process to use,
83 including how many spores and at what levels of radiation?
84 Are these decisions evaluated and then ever re-evaluated?
85 And what is the CDC's role in developing and evaluating these
86 processes?

87 According to a recent and all-too-familiar headline, CDC
88 has also announced that it will be conducting yet another
89 comprehensive review of how it regulates safety and security

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90 at bioterror labs. I think it is important to review current
91 regulations to improve processes and procedures. But past
92 reviews have not brought about the change necessary to truly
93 improve safety and standardize processes and procedures.
94 Maybe--we hope--this review will actually bring about
95 different results.

96 As I said a year ago, what we have here is a pattern of
97 recurring issues, of complacency, and a lax culture of
98 safety. Last year, CDC Director Frieden stated that this was
99 a wake-up call. However, it appears that critical government
100 agencies have hit the snooze button once again. What is
101 going to change things this time and when?

102 None of us want to be here again a year from now,
103 discussing another set of safety lapses, and heaven forbid, a
104 loss of life.

105 The U.S. Government Accountability Office has conducted
106 comprehensive work on the oversight of high-containment labs.
107 In fact, GAO has been issuing recommendations for years
108 calling for a government-wide strategy for the requirements
109 for high-containment labs and the need for national standards
110 for designing, constructing, commissioning, and maintaining

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111 such labs. Yet, these recommendations have not been
112 implemented, which is one of the reasons we are here again
113 today discussing another safety lapse that threatens national
114 security and the public health.

115 Today I would like to thank our witnesses for testifying
116 here. I look forward to hearing your testimony and learning
117 from you. Please be candid and straightforward with us as we
118 try to find ways to improve the safety and procedures in our
119 bioterrorism labs. This Subcommittee will not relent in its
120 oversight of Federal laboratories' compliance with select
121 agent regulations, and will further explore the possibility
122 of an independent agency to oversee these labs.

123 [The prepared statement of Mr. Murphy follows:]

124 ***** COMMITTEE INSERT *****

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125 Mr. {Murphy.} I now recognize the Ranking Member Ms.
126 DeGette of Colorado for 5 minutes.

127 Ms. {DeGette.} Thank you, Mr. Chairman. Mr. Chairman,
128 you say you don't want to be back here in a year like we were
129 last year, but we have been here in 2007, 2009, 2014, and now
130 2015. So might as well mark your calendar now. And part of
131 that is because it is really important that the Federal
132 Government work on identifying and containing public health
133 risks. But the work itself inherently contains risk. And
134 that is why we do have to continue our oversight.

135 At last year's hearing on the anthrax transfer I talked
136 about the high-containment lab that we have in Fort Collins
137 which some years ago we identified terrible lapses, and I was
138 able to work with my former Republican colleague, Bob
139 Schaffer, from that district to get a new lab built. I am
140 proud of that work, but we have to continue to be able to
141 assure our constituents that similar facilities across the
142 country provide no risk to workers or to the broader
143 community.

144 Now Mr. Chairman, as you said, frankly the details of

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145 the Dugway incident do not inspire confidence. We are
146 talking about a long-term series of inadvertent shipments of
147 live anthrax from the Dugway Proving Ground in Utah which is
148 supposedly one of the most sophisticated facilities in the
149 world. This incident only came to light in May because a
150 private company contacted CDC after discovering what it
151 thought was inactivated anthrax was actually live anthrax.

152 Since then we have learned that 86 laboratories in 20
153 states and the District of Columbia and seven foreign
154 countries received live anthrax spores from Dugway over the
155 last 12 years. Those labs then transferred the live spores
156 to an additional 106 labs. So we are talking about almost
157 200 labs in all 50 states accidentally receiving live anthrax
158 for over a decade. Miraculously, nobody seems to have fallen
159 ill as a result of this series of incidents. Still, like
160 you, Mr. Chairman, I am concerned that this activity was
161 going on for so long before one lab finally raised questions
162 that spurred the Department to action.

163 I am eager to hear answers from DoD how this was allowed
164 to happen in the first place and what they are doing to
165 ensure it never happens again.

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166 I understand that the Department's review of the Dugway
167 incident released last week found there is insufficient
168 scientific literature to develop effective protocols for the
169 inactivation of anthrax spores. The Dugway lab was therefore
170 relying on procedures that did not permanently or completely
171 sterilize the anthrax spores.

172 Now, this is not my area of expertise, but it seems
173 troubling on its face. How have we conducted research on
174 this dangerous pathogen for the past decade without
175 thoroughly understanding how to inactivate it? We need to
176 conduct a serious examination of whether we use similarly
177 questionable protocols for other select agents, and if so, I
178 think we can all agree that we should immediately cease those
179 operations to ensure we are not putting public health at
180 risk.

181 For now, appropriately, DoD has issued a moratorium on
182 shipping inactivated anthrax from its labs. This seems like
183 an important first step, but I do want to know how that
184 affects the research the lab was doing. Furthermore, I want
185 clarification as how do we have 200 separate labs all across
186 the country working with anthrax? Do we need to have 200

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187 labs working with anthrax or is it possible that we could
188 limit the number of labs and therefore limit the risk while
189 still being able to do this important research?

190 I also want to hear today about whether the breakdowns
191 at Dugway are indicative of broader problems at this site or
192 even across the high-containment lab system. The labs that
193 handle these pathogens must be held to the highest standards.
194 Yet, the incidents that we have seen recently raise questions
195 about whether we can trust high-containment labs to safely
196 handle select agents.

197 Now in the last year, we have seen an anthrax exposure
198 incident at CDC--this is what you said--improper shipments of
199 avian flu, and even a potential Ebola exposure at a CDC lab.
200 I feel really lucky that we haven't had anybody infected, but
201 it could happen and I think we have just going on borrowed
202 time here.

203 So I hope all of you have answers today about what we
204 are really doing to make serious changes to the system and
205 include recommendations that GAO has made.

206 I also want to hear from our witnesses about the role
207 Congress should play in making sure the program operates

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208 safely. And with that, Mr. Chairman, I yield back. Thank
209 you.

210 [The prepared statement of Ms. DeGette follows:]

211 ***** COMMITTEE INSERT *****

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212 Mr. {Murphy.} Thank you. Does anybody else on this
213 side wish to make any opening statement or comments? If not,
214 I would ask, and I don't know if you have seen this yet, Ms.
215 DeGette and Mr. Pallone. The CDC article--an article
216 appeared in last night's USA Today. I would like to have you
217 look at it and see if you would have unanimous consent to
218 submit that to the record. With no objection? This is
219 titled CDC Lacked Key Lab Incident Reporting Policy Despite
220 Scrutiny and Promises, and I think it is going to be relevant
221 to today's hearing.

222 [The information follows:]

223 ***** COMMITTEE INSERT *****

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|

224 Mr. {Murphy.} I now recognize Mr. Pallone for 5
225 minutes.

226 Mr. {Pallone.} Thank you, Mr. Chairman. I hope today
227 we can get to the bottom of what happened at Dugway Proving
228 Ground that resulted in live anthrax being shipped to 192
229 labs in all 50 states and at least seven foreign countries.

230 Deputy Defense Secretary Robert Work described these
231 lapses as a ``massive institutional failure.'' I hope Dr.
232 Hassell can explain to us today how these failures could
233 possibly have occurred as well as what DoD is doing to
234 strengthen and standardize safety protocols across all DoD
235 labs as we move forward.

236 I am deeply relieved that no one has fallen ill as a
237 result of these lapses, and I am hopeful that this will
238 remain the case as DoD and CDC continue to track all the labs
239 that receive these samples and the personnel that handle
240 them. But this incident also raises broader questions about
241 the safety of high-containment laboratories across the
242 country.

243 Every day hundreds of labs in the Federal Government as

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244 well as academic institutions and private companies handle
245 dangerous pathogens and toxins under the Federal Select Agent
246 Program. Make no mistake, these labs perform important work.
247 High-containment labs play a critical role in biodefense by
248 conducting research to improve our defenses against
249 biological attacks and strengthening our public health
250 response capabilities.

251 Laboratories that handle select agents are required to
252 abide by a set of regulations commensurate with the risk that
253 these agents pose. They are required to restrict access to
254 select agents to individuals who have undergone a security
255 risk assessment by the FBI and implements physical security
256 safeguards, lab safety measure, and incident response plans.
257 They must also ensure that laboratory workers are properly
258 trained on biosafety and security measures.

259 Labs that participate in the program are also subject to
260 registration and inspections by the CDC's Division of Select
261 Agents and Toxins. There are civil penalties associated with
262 lapses in safety protocols. Unauthorized possession or
263 misuse of select agents is subject to severe criminal
264 penalties. However, incidents in the past year involving

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265 anthrax, Ebola, and highly pathogenic avian flu raise
266 questions about whether we need to strengthen our federal
267 oversight of labs that are working with dangerous pathogens.
268 Is the current regulatory framework sufficient? Do the
269 enforcement agencies have sufficient resources to ensure that
270 oversight is robust? What is CDC doing to improve the
271 Federal Select Agent program and prevent similar situations
272 from occurring in the future?

273 I understand that CDC and DoD have conducted reviews of
274 these incidents and have promised several more. I look
275 forward to hearing about the findings and recommendations
276 from those reviews and how they can be used to enhance safety
277 and security at all of our Nation's high-containment
278 laboratories. I also want to note that GAO has an important
279 body of work that can inform this discussion. I look forward
280 to hearing from GAO about its recommendations to strengthen
281 safety measures across high-containment labs.

282 I am glad that nobody appears to have suffered any
283 injuries because of this latest incident out of Dugway. The
284 next time, however, the mishap may be from something more
285 dangerous than liquid anthrax such as a highly infectious

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286 pathogen. So I hope we can all learn from this latest
287 incident and will take seriously the important
288 recommendations made by recent and ongoing investigations by
289 GAO and others to make this program safer. Obviously we look
290 forward to a productive discussion today on how we can
291 improve oversight and what this committee can do to
292 facilitate that process and again thank our chairman and our
293 ranking member as we proceed. I yield back.

294 [The prepared statement of Mr. Pallone follows:]

295 ***** COMMITTEE INSERT *****

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296 Mr. {Murphy.} The gentleman yields back, and if no
297 further comments from here, then we are going to go to our
298 witnesses.

299 So as you are aware, when the committee is holding an
300 investigative hearing, when doing so, has had the practice of
301 taking testimony under oath. Do any of our witnesses today
302 have any objections to testifying under oath? Seeing no
303 objections, the chair then advises you that under the rules
304 of the House and the rules of the committee, you are entitled
305 to be advised by counsel. Do any of you desire to be advised
306 by counsel today? No. No one is asking for that.

307 In that case, would you please rise, raise your right
308 hand, and I will swear you in?

309 [Witnesses sworn.]

310 Mr. {Murphy.} All of our witnesses have answered in the
311 affirmative, and so now you are under oath and subject to the
312 penalties set forth in Title 18, Section 1001, of the United
313 States Code.

314 You may now each give a 5-minute summary of your written
315 statement. Please pay attention to the lights there, and we

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316 will start with you, Dr. Hassell, 5 minutes.

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|

317 ^TESTIMONY OF D. CHRISTIAN HASSELL, DEPUTY ASSISTANT
318 SECRETARY OF DEFENSE FOR CHEMICAL AND BIOLOGICAL DEFENSE,
319 DEPARTMENT OF DEFENSE; DAN SOSIN, DEPUTY DIRECTOR, OFFICE OF
320 PUBLIC HEALTH PREPAREDNESS AND RESPONSE, CENTERS FOR DISEASE
321 CONTROL AND PREVENTION; GREGORY DEMSKE, CHIEF COUNSEL TO THE
322 INSPECTOR GENERAL, OFFICE OF INSPECTOR GENERAL, U.S.
323 DEPARTMENT OF HEALTH AND HUMAN SERVICES; AND MARCIA CROSSE,
324 DIRECTOR, HEALTHCARE, GOVERNMENT ACCOUNTABILITY OFFICE

|

325 ^TESTIMONY OF D. CHRISTIAN HASSELL

326 } Mr. {Hassell.} Chairman Murphy, Ranking Member DeGette,
327 and distinguished Members of the Subcommittee, I appreciate
328 the opportunity to brief you today on the Department of
329 Defense's inadvertent shipments of samples containing live
330 Bacillus anthracis spores or anthrax. My name is David
331 Hassell. I am the Deputy Assistant Secretary of Defense for
332 Chemical and Biological Defense.

333 The Use of inactivated or dead anthrax is an important
334 element of longstanding DoD programs to develop ways to

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335 protect warfighters and the public from known biological
336 threats, doing this with the development and testing of
337 detection systems, protection equipment, diagnostics, and
338 decontamination capabilities.

339 We first learned of the incidents under consideration
340 today on May 22 of 2015 when the Centers for Disease Control
341 and Prevention was alerted by a private company regarding the
342 growth of live anthrax in a sample that was inactivated by a
343 laboratory at the Army's Dugway Proving Ground in Utah. The
344 CDC immediately began an investigation, working with DoD
345 laboratories, state officials, and the FBI.

346 By May 25, all known laboratories that received
347 inactivated anthrax samples from that same batch had been
348 notified and instructed to stop working with the samples.
349 Also on May 25th the four DoD laboratories that produce
350 inactivated anthrax were directed to stop producing,
351 shipping, and working with any inactivated anthrax other than
352 for purposes related to this current matter.

353 Subsequent tests by Dugway identified other batches of
354 inactivated anthrax as containing live spores, and on June 2nd
355 the Department of Defense notified all known recipients of

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356 inactivated anthrax from Dugway to stop working with the
357 material, whether it was confirmed to contain live anthrax or
358 not.

359 There's no known or suspected cases of anthrax infection
360 among workers at any of the laboratories that produced or
361 received inactivated anthrax, and there is no known risk to
362 the general health and very little risk to laboratory workers
363 themselves. However, as a precaution, 31 U.S. citizens, 8
364 non-DoD, 23 DoD, were placed on post-exposure prophylaxis
365 treatment, and this was completed yesterday.

366 Returning to the subject of the four DoD Laboratories
367 that produce inactivated anthrax, on May 29th the Deputy
368 Secretary directed that those four DoD laboratories test all
369 previously inactivated anthrax that was in their inventory to
370 identify the presence of any live spores. That testing is now
371 complete, and the results are as follows: Since 2003, the
372 four DoD laboratories irradiated a total of 149 batches of
373 live anthrax spores. Of the 96 samples that were available
374 to test, 17 tested positive for the presence of live anthrax.
375 All of these originated from Dugway.

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376 We now know that over the past 12 years, 86 laboratories
377 in 20 states, D.C., and seven foreign countries received
378 directly from Dugway inactivated samples that contained live
379 spores. In addition, the CDC has informed us that an
380 additional 106 labs received secondary transfers from some of
381 the original 86 direct recipient labs. This brings the total
382 to 192 labs in all 50 States, D.C., and three Territories of
383 Guam, Puerto Rico, the U.S. Virgin Islands.

384 A recently completed Comprehensive Review of the root
385 causes of the incident resulted in several key findings
386 including that the primary systemic issue is the lack of
387 specific validated standards to guide the development of
388 protocols, processes, and quality assurance measures, and the
389 resulting recommendations are grouped into three broad
390 categories being enhance quality control programs, establish
391 testing protocols that are based on relevant scientific data,
392 and improve program management.

393 The Department is committed to ensuring that this
394 doesn't occur again and will implement the recommendations
395 that were in the report and the further directives outlined
396 by Deputy Secretary Work on 23rd of July. In the interim, the

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397 aforementioned moratorium will continue. Our top priority is
398 the safety of all involved, and we remain committed to
399 complete transparency of information as we go forward. Thank
400 you for the opportunity to testify today, and I'll welcome
401 your questions.

402 [The prepared statement of Mr. Hassell follows:]

403 ***** INSERT A *****

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404 Mr. {Murphy.} Thank you, Dr. Hassell. Dr. Sosin,
405 before you speak, I just want to note that we haven't really
406 had the chance to review a lot of your testimony because it
407 wasn't in until 9:00 last night, and the committee rules, we
408 ask for 48 hours. So we really didn't have time to review
409 that. So when we get the testimony at the last minute, it is
410 difficult for us to review it. I don't want to think that
411 CDC is trying to frustrate our purposes here, but I do want
412 to indicate to you and if you could pass the word onto CDC
413 department that for future testimony, we want that 48-hour
414 limit adhered to.

415 So at this point, we would like to hear from you for 5
416 minutes. Thank you.

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417 ^TESTIMONY OF DAN SOSIN

418 } Mr. {Sosin.} Thank you. Chairman Murphy, Ranking
419 Member DeGette, distinguished members of the subcommittee, I
420 want to thank you for this opportunity to testify before you
421 today. I would like to share with you what CDC has done to
422 respond to the inadvertent release of live Bacillus anthracis
423 spores, or anthrax, from Dugway Proving Ground and to provide
424 perspective on the Select Agent Program that CDC supports.

425 CDC works 24/7 to save lives and protect people. We
426 activated our emergency operation center in face of
427 uncertainty about the scope and severity of this release. We
428 understand how concerning this incident has been, and our
429 primary focus continues to be making certain people are safe
430 and that anthrax materials are secured and ultimately
431 disposed of.

432 This incident raises serious and challenging issues. It
433 is important to note, however, that scientific research in
434 laboratories is a vital component of our Nation's defense
435 against naturally occurring diseases and bioterrorism. This

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436 research is complex and sometimes dangerous. While it is not
437 possible to eliminate all risk, those of us working in this
438 field across the country and around the world must do all we
439 can to minimize risk.

440 Here's what we know about today about the Dugway
441 incident. There have been no suspected or confirmed cases of
442 anthrax infection associated with these samples. Persons
443 that CDC has assessed is at some risk and who have accepted
444 treatment will have completed antibiotic and vaccine
445 prophylaxis yesterday, and no complications have been
446 reported.

447 The facilities that received these samples have
448 appropriately secured or destroyed them, and those needing
449 decontamination have completed the procedures or are well
450 under way.

451 Highlighting this positive news is not meant to downplay
452 the seriousness of the situation. On multiple occasions over
453 more than a decade the production methods at Dugway failed to
454 inactivate anthrax spores. The failure of inactivation was
455 evident because growth was being detected on multiple
456 production runs. These runs were routinely sent back for

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457 additional irradiation. This should have been seen for what
458 it was, an indication that the margin of safety with the
459 method was not sufficient. Additionally, sterility testing
460 at Dugway to confirm the inactivation was successful at
461 killing the organism failed to detect live spores.

462 We have looked and found no evidence of a similar
463 problem at other facilities that inactivate anthrax spores.
464 The existing rules and regulations on anthrax spore
465 inactivation are under review.

466 Here's what we don't know. The Federal Select Agent
467 Program relies primarily on sterility testing to assure that
468 a select agent can no longer grow. We remain unsure whether
469 there was a problem with the execution of this testing at
470 Dugway or if the biology of spores was not sufficiently
471 understood to make the procedure reliable.

472 And here's what we are doing moving forward. We are
473 maintaining a moratorium on the use and transfer of
474 inactivated anthrax spores until we have an acceptable and
475 credible approach to increasing safety and security. And we
476 are developing a research agenda on spore biology to answer

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477 questions about inactivation and sterility, and we will help
478 to conduct some of that research.

479 At Dr. Frieden's direction, we are initiating a review
480 of the CDC Federal Select Agent Program. The review will
481 complement ongoing work to improve laboratory safety at CDC
482 this past year. The time is right with new leadership over
483 the CDC Federal Select Agent Program for a thorough review of
484 our program to ensure it's meeting its mandate, especially in
485 light of recent lab incidents.

486 The world benefits from discoveries made working with
487 dangerous pathogens, and the scientists who work with these
488 organisms also have a commitment to protecting public health
489 and safety. We must achieve a balance to protect workers and
490 the communities around them while encouraging and supporting
491 scientific advancement. But safety comes first.

492 One characteristic of CDC's stewardship of the Federal
493 Select Agent Program is a commitment to improvement. The
494 regulations have been refined with advice from many including
495 numerous federal advisory and review bodies and the public.
496 This input has led to revisions to the select agent
497 regulations concerning personnel reliability, incident

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498 reporting, coordination of inspections with federal partners,
499 and tracking shipments of select agents.

500 Although much work has been done to enhance the
501 effectiveness of CDC's regulatory oversight of select agents
502 and toxins, more work remains to be done. Where improvements
503 can be made to better the program, we will make them.
504 Whether there is disagreement on the best path forward, we
505 will contribute our scientific and programmatic expertise to
506 the debate. We will work diligently and thoughtfully with
507 anyone sharing our commitment to protect Americans from
508 biological threats. Thank you.

509 [The prepared statement of Mr. Sosin follows:]

510 ***** INSERT B *****

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|

511 Mr. {Murphy.} Thank you. Dr. Demske, you are
512 recognized for 5 minutes.

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|

513 ^TESTIMONY OF GREGORY DEMSKE

514 } Mr. {Demske.} Good morning, Chairman Murphy, Ranking
515 Member DeGette, members of the subcommittee, I'm Greg Demske,
516 Chief Counsel to the Inspector General at the Department of
517 Health and Human Services. I appreciate the opportunity to
518 appear before you today to discuss the Federal Select Agent
519 Program.

520 While CDC administers the Select Agent Program with the
521 Department of Agriculture, OIG is authorized to impose civil
522 money penalties for violations of the regulations. We also
523 audit, evaluate, and offer suggestions for program
524 improvement. CDC reviews all potential select agent
525 violations and immediately refers urgent or criminal matters
526 to the FBI. In other matters, CDC further investigates and
527 determines whether to exercise its authority to suspend or
528 revoke registration or require remedial actions. If CDC
529 concludes a civil violation may have occurred, it refers the
530 case for OIG for potential enforcement.

531 OIG carefully evaluates every referral and decides

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532 whether to pursue the case and what penalty to seek based on
533 the facts and circumstances of the particular case. In our
534 experience, violations of the regulations pose varying risks
535 to public health and safety. To date, OIG has imposed 20
536 CMPs totaling \$2.4 million for select agent violations. Two
537 of our cases have involved Dugway.

538 In April 2007, Dugway shipped anthrax to a research
539 facility. The shipment included a certification that the
540 anthrax was non-viable. The research facility tested the
541 material and found the presence of a low concentration of
542 viable anthrax. We found that Dugway ignored the results of
543 its post-inactivation viability test which showed viable
544 anthrax was present. Later, in November 2010, a government
545 laboratory received a shipment from Dugway that included a
546 vial of Botulinum neurotoxin. Small amounts of this select
547 agent are exempt from the regulations. The packing slip
548 indicated that the vial contained an exempt amount, but in
549 fact, the shipment included a regulated amount. Dugway then
550 self-reported two other unauthorized shipments of this select
551 agent.

552 As a federal entity, Dugway presents an enforcement

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553 challenge for OIG. Any CMP on a federal entity would simply
554 shift money within the government at a net cost to taxpayers
555 and may not promote better compliance. Consistent with our
556 approach to date with other federal entities, OIG issued
557 Notice of Violation letters to Dugway for both cases. Both
558 letters stated that OIG had determined Dugway had violated
559 the select agent regulations and it should examine its
560 current policies and practices, take corrective action, and
561 monitor its safeguards on an ongoing basis. Yesterday OIG
562 received another referral from CDC on Dugway. We are
563 reviewing the matter now.

564 Over the years OIG has audited government and private
565 entities for select agent compliance. For example, OIG
566 audited six federal laboratories and provided audit results
567 to the heads of the relevant federal agencies, putting them
568 on notice of deficiencies. OIG is expanding our audits and
569 evaluations of select agent management. We will focus on
570 CDC's oversight of the Select Agent Program and on the
571 operation of HHS laboratories that handle select agents.

572 Through our enforcement work, OIG has also identified
573 several opportunities to improve program compliance,

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574 oversight, and enforcement. As reflected in my written
575 testimony, these opportunities focus on enhanced
576 documentation requirements and increased authority for CDC
577 inspectors. We stand ready to work with CDC and others in
578 HHS to continue to improve the Select Agent Program and use
579 our enforcement tools to promote compliance with these
580 regulations that protect the health and safety of the
581 American people.

582 Thank you again for inviting me to speak. I'd be happy
583 to answer questions.

584 [The prepared statement of Mr. Demske follows:]

585 ***** INSERT C *****

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|

586 Mr. {Murphy.} Thank you, Mr. Demske. Dr. Crosse, you
587 are recognized for 5 minutes.

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|

588 ^TESTIMONY OF MARCIA CROSSE

589 } Ms. {Crosse.} Chairman Murphy, Ranking Member DeGette,
590 and members of the subcommittee, I'm pleased to be here today
591 to discuss GAO's work on high-containment laboratories. The
592 biosafety and biosecurity practices in these laboratories are
593 intended to reduce the exposure to biological agents and
594 prevent their loss, theft, or misuse.

595 The recent shipments of live anthrax bacteria from DoD
596 to U.S. and international laboratories, similar to last
597 year's potential exposures of CDC personnel to live anthrax
598 bacteria, shows multiple breakdowns in compliance with
599 established policies and inadequate oversight of federal
600 high-containment laboratories. This is another example in an
601 ongoing series of safety lapses which continue to occur,
602 often with the same root cause as for prior incidents.

603 We've been lucky so far. Researchers in these labs work
604 with high-risk biological agents that may result in serious
605 or lethal infections and, in some instances, have the
606 potential to be used in biological weapons. These labs do

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607 important work with pathogens to develop vaccines and
608 countermeasures and to understand emerging infectious
609 diseases. However, the pathogens handled by these
610 laboratories also have the potential for high-consequence
611 accidents. If the types of mistakes we've seen were to occur
612 with a particularly transmissible pathogen like certain
613 strains of influenza, not only would the laboratory workers
614 or their close contacts be at risk but an epidemic could be
615 triggered with consequences far beyond what we've seen to
616 date.

617 GAO is currently conducting work for this committee to
618 examine these issues, and the preliminary findings from our
619 work show that DoD and CDC have begun to address weaknesses
620 in the management of their high-containment laboratories but
621 have not yet fully implemented these activities. The steps
622 these agencies are taking are intended to address fundamental
623 flaws in the oversight structure, reporting, and tracking of
624 biosafety and biosecurity incidents after they have occurred.
625 For example, DoD officials said that the Dugway incident is
626 the first incident that DoD has tracked at the senior
627 department level. Since 2012 DoD has been revising its

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628 policies and procedures including reporting requirements and
629 expects to finalize these changes by this fall. But these
630 changes will only cover a subset of DoD's high-containment
631 laboratories.

632 Our ongoing work will also examine if DoD is
633 implementing steps intended to improve the culture of safety
634 at its laboratories so that future events are reduced or
635 prevented.

636 Similarly, CDC began taking steps to address weaknesses
637 identified in assessments of the June 2014 anthrax incident
638 and other safety incidents in its own laboratories, but the
639 agency has not yet completed implementing recommendations
640 intended to improve its laboratory oversight. For example,
641 an internal work group recommended that CDC develop agency-
642 wide policies to provide clear and consistent requirements
643 for biosafety for all agency laboratories. In response, CDC
644 developed a Specimen Transport Policy but has not developed
645 other agency-wide policies, such as requirements for
646 laboratory documentation and emergency protocols.

647 As I stated at the outset, the incidents you are
648 examining today are part of a long series of safety lapses.

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649 Since 2007, GAO has reported on these issues and has made
650 multiple recommendations to improve federal oversight of
651 high-containment laboratories. The federal departments
652 agreed with our recommendations and have conducted some
653 activities to respond but have not implemented our key
654 recommendation to establish a single federal entity with
655 responsibility for oversight of all high-containment
656 laboratories.

657 We recommended the establishment of a single federal
658 entity to, one, conduct government-wide strategic planning
659 for requirements for high-containment laboratories, including
660 assessments of their risks; and two, develop national
661 standards for designing, constructing, commissioning,
662 operating, and maintaining such laboratories.

663 We continue to believe that such an entity or some other
664 mechanism to ensure higher level oversight is needed in the
665 face of the continuing proliferation of high-containment
666 laboratories and the ongoing failures by agencies to fix
667 their problems on their own.

668 In closing, the lapses we've seen are indicative of
669 failures in a system that is supposed to have multiple levels

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670 of control, including cross-checks, inspections, training,
671 procedures, and validated protocols that should prevent such
672 accidents from occurring and certainly should prevent such
673 incidents from recurring.

674 Mr. Chairman, this completes my remarks. I'd be happy
675 to answer questions you or other members of the subcommittee
676 may have.

677 [The prepared statement of Ms. Crosse follows:]

678 ***** INSERT D *****

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|

679 Mr. {Murphy.} Thank you, Doctor. I will now recognize
680 myself for 5 minutes of questioning of the witnesses. Dr.
681 Sosin, at the end of your testimony you said we will work
682 diligently and thoughtfully with all of our federal partners
683 and anyone sharing our commitment to protect Americans from
684 biological threats. Please let the CDC know, I don't believe
685 them anymore.

686 The USA Today article I referenced earlier said that the
687 CDC refused to actually produce a policy to USA Today
688 regarding the lab incident reports in this newly required lab
689 safety office. When was that report actually written? Do
690 you have any idea?

691 Mr. {Sosin.} Thank you, Chairman. I was asked to
692 appear here today, and I apologize for the lateness of
693 testimony. I apologize that--

694 Mr. {Murphy.} But do you know anything about this
695 report that they are referring to in USA Today?

696 Mr. {Sosin.} I know that an article came out last
697 night. I did not know about that report and--

698 Mr. {Murphy.} Okay.

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699 Mr. {Sosin.} --and if--

700 Mr. {Murphy.} Well, could you--

701 Mr. {Sosin.} We would be happy to assure that after
702 this hearing we provide you answers to--

703 Mr. {Murphy.} Well, this committee would like that
704 report. I would like to know when it was written. If we
705 could have that, that would be valuable. Thank you.

706 Dr. Hassell, I am trying to dumb this down. Now if I
707 put a cup of coffee in a microwave oven and turn it on, it
708 gets hot in a certain amount of time. If I put a dozen cups
709 of coffee in that same microwave, same amount of time, they
710 are not going to all be heated, right? Okay. Because we
711 know that about radiation and mass, some physics principles.

712 [Slide.]

713 When I look here, and I believe this is from a report
714 here and it is on the graph there as well is that--on the
715 screen--that on the very upper left dot where it says the
716 Dugway irradiation levels here, it is saying it is operating
717 way out of the realm of the acceptable processes here. And
718 the report states that the DoD routinely operates outside of
719 validated experimental data for kill curves.

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720 So based upon that finding, it sounds like validated
721 experimental data does exist in all the DoD labs whose
722 mission involved inactivation of anthrax were operating
723 outside of it. Is that correct?

724 Mr. {Hassell.} Yes, sir.

725 Mr. {Murphy.} So is there--who is responsible for
726 setting the number of spores and dosage of radiation? And
727 are the protocols reevaluated routinely to determine that?

728 Mr. {Hassell.} That is one of the next steps we are
729 looking into. This original review was mainly focused on
730 compliance to make sure that people were following the
731 protocols they had and not show there was the willful
732 disregard for the protocols or nefarious intent.

733 Mr. {Murphy.} You said it was willful?

734 Mr. {Hassell.} It was not willful nor was it nefarious.
735 But what the graph shows, though, is they were working
736 outside of that gray box that sort of shows experimental
737 parameters that should have been the foundation for this
738 work.

739 The next step in this is we are looking at the very
740 accountability issue. How was that decision made to move

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741 outside of that realm? And as you noted, it wasn't just

742 Dugway. All the labs were outside of that area.

743 Mr. {Murphy.} Because somebody did make the decision.

744 That is something that is important. We need to know because

745 we like to think that there is a scientific rule set up that

746 they are following and that all the labs are following that,

747 too. So let me ask Dr. Hassell and Dr. Sosin, in response to

748 these most recent shipments of live anthrax, have either of

749 your agencies made any personnel changes or refer to anyone

750 for their civil penalties or criminal prosecutions for these

751 actions? Have either one of your agencies done that?

752 Mr. {Hassell.} So like first answer, for DoD, that is

753 that second part of the investigation that will kick off now

754 looking the accountability issue to determine that. And if I

755 may, one of the issues is not only the individual that made

756 that decision, if that was an individual that made that

757 decision, but what was the process? Was there an overall

758 systemic process that led people to perhaps gradually get

759 outside of that experimental box? We are looking at both of

760 those, but the accountability is taken very seriously by all

761 seniors in the Department.

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762 Mr. {Murphy.} Dr. Sosin?

763 Mr. {Sosin.} I would also like to acknowledge that we
764 understand your concern and take it seriously. No
765 disciplinary actions have been taken at CDC with respect to
766 the DoD sample incident. In fact, CDC staff responded in a
767 remarkable way to assure that all these samples were secured
768 and destroyed and that the people that might have been
769 exposed were protected.

770 Regarding the Select Agent Program, we continue to
771 consider and take advice and input on how to change the
772 nature of the program--

773 Mr. {Murphy.} Do you work with the DoD? I mean, does
774 the CDC work with other labs in terms of setting and
775 reviewing standards on any regular basis or at all?

776 Mr. {Sosin.} CDC works with DoD in a variety of ways.

777 Mr. {Murphy.} With regard to this? So I am trying to
778 find out--

779 Mr. {Sosin.} Not with respect to setting standards--

780 Mr. {Murphy.} Okay.

781 Mr. {Sosin.} --on anthrax.

782 Mr. {Murphy.} And the reason is this. When we had our

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783 hearings for General Motors and someone made the decision of
784 either making a spring this big or this big, and it cost a
785 number of lives. And they refer to that as the GM shrug.
786 People said, eh. Well, some engineer decided, on we go. And
787 it is that area when we know when people adhere to scientific
788 standards, I have the highest respect for them. When things
789 begin to slip out--and I would agree. We are not looking at
790 something nefarious or deliberate here, but it to let
791 anything slip by over time that is the problem. And as Mr.
792 Pallone pointed out, luckily no one has died yet from this,
793 but we really have dodged the bullet for a long time.

794 But I see I am out of time. I recognize Ms. DeGette for
795 5 minutes.

796 Ms. {DeGette.} Now Dr. Crosse, you talked in your
797 testimony about how people could be infected and even some
798 kind of epidemic could be started if you got a particularly
799 virulent agent that got released, correct?

800 Ms. {Crosse.} Correct.

801 Ms. {DeGette.} In addition, we have got national
802 security implications relating to the mishandling of these
803 agents. Is that also correct?

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804 Ms. {Crosse.} That is also a concern.

805 Ms. {DeGette.} And that is if these agents, these
806 active agents got into the wrong hands, right?

807 Ms. {Crosse.} That is right.

808 Ms. {DeGette.} Now, you had a lot of recommendations
809 that have not been fully implemented yet, is that right?

810 Ms. {Crosse.} Yes, although--I mean, many of the
811 recommendations they have taken at least some actions. The
812 primary one where there has been no movement is to have some
813 type of more centralized oversight.

814 Ms. {DeGette.} So to have a single federal entity that
815 could set the standards for all of the agencies, is that
816 right?

817 Ms. {Crosse.} That is right.

818 Ms. {DeGette.} Now Dr. Hassell, what is your agency's
819 opinion about that recommendation of a single federal entity?

820 Mr. {Hassell.} It makes sense in many ways. I will say
821 that within the Department itself, we are going to do that
822 internally because it is so--

823 Ms. {DeGette.} Okay. So if it makes sense in many
824 ways, why haven't we done that? Why haven't you guys

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825 implemented that in cooperation with your fellow agencies?

826 Mr. {Hassell.} Like I say, we are going to do that
827 internally. We are in discussions now on these issues.

828 Ms. {DeGette.} But you don't disagree with the idea?

829 Mr. {Hassell.} No, ma'am.

830 Ms. {DeGette.} And what about you, Dr. Sosin? What is
831 your agency's view of this?

832 Mr. {Sosin.} CDC works with APHIS at USDA as if we are
833 one program. We work very closely. We do joint inspections
834 on overlap agents. Whenever a change is proposed or
835 considered in one program, it is discussed with the other
836 program.

837 Ms. {DeGette.} Well, that is nice, but what about DoD?

838 Mr. {Sosin.} So the oversight function of the lab--I am
839 trying to understand your question. I believe--

840 Ms. {DeGette.} Well, okay.

841 Mr. {Sosin.} --it is about oversight function, correct?

842 Ms. {DeGette.} What Dr. Crosse's agency is recommending
843 is one single oversight agency that would set forth the
844 protocols for the dispensing of these agents. And so I am
845 asking each of your agencies if you would object to that kind

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846 of--it would make sense to me to get one protocol no matter
847 which lab is dispensing it or whatever. What is your view on
848 that?

849 Mr. {Sosin.} Thank you. My view is that it is a
850 complex decision, that there are constraints to having one
851 standard for all procedures. Anthrax for example--

852 Ms. {DeGette.} What constraints would those be?

853 Mr. {Sosin.} For example with anthrax, there are many
854 different uses of the products, DNA preps for developing
855 vaccines--

856 Ms. {DeGette.} But in any case if you are sending it
857 around, you don't want it to be live.

858 Mr. {Sosin.} That is absolutely--

859 Ms. {DeGette.} That is not something that is--

860 Mr. {Sosin.} No question.

861 Ms. {DeGette.} --subject to debate. So if you can have
862 one agency that could come up with the protocols about
863 oversight on how you are going to make that not be live and
864 how you are going to dispense it, you wouldn't object to
865 that, would you?

866 Mr. {Sosin.} We wouldn't object, and we believe that

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867 the Select Agent Program, the Federal Select Agent Program,
868 would be the appropriate body to do that. It will take--

869 Ms. {DeGette.} Okay. Could that have oversight over
870 the DoD, too?

871 Mr. {Sosin.} Absolutely.

872 Ms. {DeGette.} So do you think that you might cooperate
873 to make that happen?

874 Mr. {Sosin.} We will cooperate in any way to--

875 Ms. {DeGette.} Okay. Let us know what we can do to
876 help you because it seems to me that is an excellent
877 recommendation, okay? And you are nodding, Dr. Hassell. Can
878 you work with Dr. Sosin on that and his other colleagues?

879 Mr. {Hassell.} Yes, ma'am, and that was--

880 Ms. {DeGette.} Thank you.

881 Mr. {Hassell.} --stated in the statement. We
882 definitely are--we are working together.

883 Ms. {DeGette.} Okay. Now here is something else,
884 having been on this committee for a long time. I have
885 noticed this at all the federal labs, not just the ones
886 dealing with anthrax and other select agents but also our
887 nuclear labs have the same problem of a culture of safety,

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888 and we have really struggled in this committee to get people
889 to understand how important it is to have a culture of
890 safety. So Dr. Hassell, can you think of anything we can do
891 to systematize some kind of culture of safety?

892 Mr. {Hassell.} That is a question I have myself, ma'am.
893 I have spent 10 years at the DuPont Company which goes back
894 200 years making gunpowder for Thomas Jefferson. And that
895 safety culture is there. So one of the things I plan to do
896 is go out and see those industry best practices for doing
897 this that the government--

898 Ms. {DeGette.} How long--

899 Ms. {Hassell.} --perhaps could adopt.

900 Ms. {DeGette.} How long have you been there?

901 Mr. {Hassell.} At the--

902 Ms. {DeGette.} At DoD.

903 Mr. {Hassell.} Just about a year today.

904 Ms. {DeGette.} Okay. And Dr. Sosin, do you have some
905 ideas about how we can increase the culture of safety at
906 these labs?

907 Mr. {Sosin.} I personally do not. I know that the CDC
908 and CDC's Director takes this issue incredibly seriously and

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909 has developed a series of ideas that will evolve.

910 Ms. {DeGette.} Okay. I think we need you guys to
911 supplement your testimony about this because this is really
912 important. And I have one other question. I don't have
913 time, but I would like a written answer for this. I would
914 like to know why all of the problems in this particular
915 incident seem to have come out of this one lab. Was it a
916 problem with how they were handling this anthrax, how they
917 were trying to treat it or is it a problem with the procedure
918 itself? And maybe that is what you are investigating right
919 now, but that seems like the crux of the problem.

920 Thank you, Mr. Chairman.

921 Mr. {Murphy.} The gentlelady's time has expired. I
922 will now recognize the vice chairman of the subcommittee, Mr.
923 McKinley, for 5 minutes.

924 Mr. {McKinley.} Thank you, Mr. Chairman. This is a
925 subject I acknowledge is foreign to me. So I was delighted
926 to try to hear and learn from some of your testimony on this.
927 But I am just curious before I have got a list of six
928 questions. I am trying to go back to the fundamentals. Why
929 would we ship inactive cells to laboratories? What would you

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930 gain by shipping something that is dead?

931 Mr. {Hassell.} Maybe we could--

932 Mr. {McKinley.} You have to use the microphone.

933 Mr. {Hassell.} So one of the aspects of this
934 inactivated anthrax is that it maintains the shell that is
935 around the original live spore. The physical structure is
936 still there. That is important because that is the basis for
937 the detection systems and the diagnostic systems that are
938 developed.

939 Mr. {McKinley.} Okay. That--

940 Mr. {Hassell.} So the closer we can get to that the
941 better we are.

942 Mr. {McKinley.} That helps a little bit to explain.
943 Let's go back to something that the gentlelady from Colorado
944 mentioned earlier that I didn't pick in the reading. We are
945 doing this in 200 laboratories around the country? Is that
946 an accurate statement? We are studying that in 200
947 laboratories? We have live anthrax in 200 laboratories?

948 Mr. {Sosin.} The statement there though are 192 labs
949 that receive this material were not intended to receive live
950 anthrax. There are 181 registered entities within the

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951 Federal Select Agent Program registered to possess, use, or
952 transfer Bacillus anthracis.

953 Mr. {McKinley.} Okay. So apparently there is some--I
954 would struggle with that to understand why we have to have
955 300 or 200 looking at some of--I would really, especially
956 given the circumstances of this. Dr. Crosse, before I get
957 to--again, I am going to run out of time here I think--how
958 would you grade the DoD's handling of this matter? Would you
959 give them an A on how they handled it? An F? Give me a--

960 Ms. {Crosse.} Well, since the incident was reported,
961 they have moved pretty quickly to identify where the samples
962 were sent, although that was still developing over the last
963 few days and they have--

964 Mr. {McKinley.} How would you grade it? Would you
965 grade it passing? Acceptable? A B? A C?

966 Ms. {Crosse.} I think their response, once it was
967 discovered, has probably been a B. I think the activities
968 leading up to it and the fact that this went on for so long
969 is definitely a failure.

970 Mr. {McKinley.} Well, I understand it has been going on
971 for 10 years?

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972 Ms. {Crosse.} Yes. That is a failure and that fact
973 that they have four different laboratories inactivating
974 anthrax with four different methods and with four different
975 chains of command that don't talk to one another.

976 Mr. {McKinley.} Go back to Dr. Hassell. Since anthrax
977 is probably the most dangerous agent that we can handle, I
978 suppose it is more dangerous than Ebola. But getting it,
979 getting that, is probably the biggest threat that we have in
980 national security that someone doesn't get this agent. So in
981 this case, has anyone tried to grow this live anthrax after
982 they have received these products, with 200 laboratories?
983 Have they tried to reactivate it?

984 Mr. {Hassell.} It was grown to show the presence of the
985 live spores. I may not be understanding your question. I
986 apologize.

987 Mr. {McKinley.} Okay. Well, let me move on because I
988 only have 1 minute left. And so is this the same type of
989 anthrax that was used in 2001?

990 Mr. {Sosin.} This is absolutely not the same type of
991 anthrax used in 2001. This is a wild type anthrax. It was
992 in a liquid formulation with extremely small numbers of

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993 spores in a 1 Ml sample. Very different situation,
994 nonetheless, taken extremely serious.

995 Mr. {McKinley.} So this is something that different--do
996 you feel that our national security is more at risk because
997 of the process we have been handling this for the last 10
998 years?

999 Mr. {Sosin.} The CDC--

1000 Mr. {McKinley.} It is a yes or a no, isn't it?

1001 Mr. {Sosin.} I don't believe that these samples created
1002 such a risk. I believe that they were secured quickly and
1003 destroyed, that there are very small numbers of spores in
1004 this material and that it is naturally occurring type of
1005 anthrax.

1006 Mr. {McKinley.} Let me ask in the last--well, my
1007 thought process initially--why we were shipping this to seven
1008 foreign nations? Does someone have a written authorization?
1009 Is there one of those proverbial emails that someone was
1010 requesting this? And then who authorizes the shipment of
1011 that and under what process do they explain how they want to
1012 get it? Why would we ship to seven foreign nations?

1013 Mr. {Hassell.} So in several cases, those were actually

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1014 DoD facilities that were located in those foreign nations,
1015 and other cases they were allies that--

1016 Mr. {McKinley.} We don't have enough DoD facilities in
1017 America that we have to go overseas? I am running out of
1018 time.

1019 Mr. {Murphy.} Okay. I now recognize Mr. Green for 5
1020 minutes.

1021 Mr. {Green.} Thank you, Mr. Chairman. Unfortunately,
1022 the incident that led to today's hearing is not the first
1023 instance of issues of handling and shipment of bioagents at
1024 Dugway Proving Grounds. CDC and the Office of Inspector
1025 General examined safety lapses at Dugway in 2007. The
1026 result? The same kinds of problems we are hearing about
1027 today, failing to properly inactivate anthrax specimens. Is
1028 that correct, Dr. Hassell?

1029 Mr. {Hassell.} Yes, sir.

1030 Mr. {Green.} Based on the previous problem, should
1031 Dugway have made a better effort to check its procedures and
1032 double-check the samples to see if the process worked?

1033 Mr. {Hassell.} That is my initial impression. We are
1034 going to be looking at that much more because there were some

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1035 serious implications there, and we are going to be following
1036 up on that much more. So we can report back.

1037 Mr. {Green.} Similarly when the CDC announced last year
1038 that it had inadvertently transferred live anthrax, did DoD
1039 as a precautionary measure direct its lab to check their own
1040 processes for ensuring that anthrax was inactivated properly?

1041 Mr. {Hassell.} No, sir.

1042 Mr. {Green.} Why not?

1043 Mr. {Hassell.} I am not sure. That is a good question.
1044 We are going back and trying to figure out what were the
1045 steps leading up to this. It should have been better
1046 indicators that we could have taken action and detected this
1047 earlier.

1048 Mr. {Green.} Well, again, I think the reason for the
1049 hearing is it seems kind of strange that, you know, CDC made
1050 a mistake and we had a problem with a DoD facility, and
1051 somebody in management authority didn't say let's check to
1052 make sure the DoD is doing it right because of what happened
1053 at the CDC, particularly because of the problem at Dugway.
1054 Nobody decided to do that?

1055 Mr. {Hassell.} It doesn't appear so, sir.

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1056 Mr. {Green.} Beyond the particulars of this anthrax
1057 incident, it is a fact that such shipments of live anthrax
1058 can accidentally occur raises serious questions about the
1059 handling of select agents at both Dugway and other DoD labs.

1060 Dr. Hassell, based on the continuing problems we did
1061 find at Dugway, what assurance can you give the subcommittee
1062 that there is no long-standing safety problems at Dugway or
1063 at other DoD facilities that handle high-risk biological
1064 agents?

1065 Mr. {Hassell.} So that is a good question. We are
1066 trying to look and see if there are some general lessons we
1067 can learn from this and use it to ask some of the questions
1068 such as your previous question. Just internally, are there
1069 indicators here that would indicate we need to be asking
1070 other questions about other operations across the whole
1071 complex.

1072 Mr. {Green.} What is DoD doing to look across all of
1073 its facilities and check their biosafety and biosecurity
1074 policies and procedure are adequate?

1075 Mr. {Hassell.} We are undertaking an effort now to look
1076 at that, as was pointed out earlier, the chain of command is

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1077 disparate right now. So we are trying to tighten that up.
1078 We are going to make sure that the standards for example for
1079 the inactivated anthrax, we will ensure internally that
1080 that's standardized across all the laboratories. And then we
1081 can use that as the basis and see if there are other
1082 operations that we need to take some more actions on.

1083 All four of those facilities do different activities.
1084 Dugway is largely a production facility. The other ones are
1085 more research facilities. So one size may not fit all, but
1086 there are definite lessons we could learn from this, and
1087 whenever possible, we will standardize.

1088 Mr. {Green.} How is DoD ensuring a serious issue such
1089 as potential exposures or concerns about misuse are
1090 communicated from the laboratories to the senior leadership?

1091 Mr. {Hassell.} Some of the recommendations have been
1092 made previously we are going to be more vigorous on. The DoD
1093 instruction that was mentioned earlier that has been in
1094 process, that will include aspects that will bring all of the
1095 reporting forward to a higher level. So for example, the
1096 2007 incident, that will not just remain--if that had
1097 happened today, that wouldn't just remain at Dugway or that

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1098 immediate command. It would come all the way up to a central
1099 office within the Department. We would review all of those.
1100 We're in the process now of pulling in all of the Inspector
1101 General reports, CDC reports from all of the laboratories up
1102 to my office, and we're reviewing all of those to see if
1103 there are indicators and lessons to be learned.

1104 Mr. {Green.} Well, following my colleague from West
1105 Virginia, so far we have been extremely fortunate these
1106 incidents at Dugway have not led to broader public health or
1107 security problems, and I hope today's hearing and other
1108 ongoing oversight of this incident serves as a call to action
1109 to tighten up these processes, not just for anthrax and at
1110 Dugway but other select agents and at all facilities. We
1111 don't want to have to have somebody here again or I hope the
1112 Armed Services Committee is also looking at it and seeing
1113 that the issues are being corrected.

1114 Mr. Chairman, I yield back my time.

1115 Mr. {Murphy.} The gentleman yields back. I now
1116 recognize Dr. Burgess for 5 minutes.

1117 Mr. {Burgess.} Thank you, Mr. Chairman. Thanks to our
1118 witnesses for being here today.

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1119 Dr. Sosin, let me just ask you a couple of questions
1120 basically about what we are doing to harden our public health
1121 infrastructure in locations where these agents may be under
1122 study because we have heard sort of a recurrent theme. I
1123 certainly appreciate what Ranking Member DeGette has said
1124 earlier. I mean, I have been on this committee for a number
1125 of years as well, and it seems like there is a recurrent
1126 theme here. We want everything to be perfect, but there are
1127 human beings involved and sometimes they aren't perfect. So
1128 I remember reading--I was just a regular guy in private
1129 practice when the anthrax attack happened in 2001. I
1130 remember reading with just absolute horror what happened when
1131 those five individuals were infected and subsequently died,
1132 reading about their emergency room doctor's experience that
1133 here was a guy that didn't look that sick. He looked like
1134 the last 700 people that just walked in the door, but as we
1135 found out with anthrax, you can be a lot sicker than what you
1136 look. And by the time clinical deterioration begins, you are
1137 almost too late on the curve to rescue someone, although
1138 rescue is possible if you start early. Because unlike Ebola,
1139 anthrax is treatable with relatively common antibiotics.

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1140 So bearing in mind that Ebola experience from not quite
1141 a year ago, CDC was telling us last July, August, September,
1142 we got everybody up to speed about Ebola. We don't have to
1143 worry about Ebola coming to this country. The President made
1144 a statement that we don't have to worry about Ebola coming to
1145 this country. The CDC has done what it needs to do to get
1146 everybody prepared. And then it didn't happen.

1147 So this is not quite the same thing, but you know you
1148 have got sites where this is under study. You know that
1149 unfortunately lapses can occur. So do you have like a 35- or
1150 50-mile radius around these sites where you are at least
1151 notifying the people on the front lines, the emergency rooms,
1152 the emergency room doctors, that this is something we are
1153 working on in your community.

1154 Mr. {Sosin.} Thank you for that question. First with
1155 respect to hardening infrastructure, yes, there are support
1156 programs at the state and local level to address anthrax and
1157 other bioterrorism threats. As you pointed out, there are
1158 not only the routine treatments, there are some advanced
1159 medical countermeasures that have been developed such as
1160 antitoxin to help treat later stages of anthrax and vaccine.

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1161 Those were actually brought to bear, the vaccine and
1162 antibiotics and prophylaxis in this incident.

1163 The state authorities are informed of the institutions
1164 and their jurisdiction and the agents that are there as a
1165 part of their public health preparedness programs. There is
1166 no active outreach to the medical community in the absence of
1167 an incident, but we are quick to respond as we did in this
1168 instant with the information about how to diagnose, how to
1169 watch for, monitor, and how to treat.

1170 Mr. {Burgess.} Let me just interrupt you because my
1171 time is going to drift away from me. Could you provide the
1172 committee those materials that you provided--

1173 Mr. {Sosin.} Absolutely.

1174 Mr. {Burgess.} --to the emergency rooms and what radius
1175 around where the breach occurred, what the geographic radius
1176 was?

1177 Mr. {Sosin.} I will say that these materials were not
1178 sent to emergency departments, although we did consider it.
1179 We were monitoring the workers in the laboratories closely,
1180 and these materials were sent to the laboratories and to the
1181 state health department.

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1182 Mr. {Burgess.} But Dr. Sosin, that is the point.

1183 Mr. {Sosin.} Yeah.

1184 Mr. {Burgess.} These people thought they were getting
1185 inactivated strains, and they were active. So somebody
1186 leaves work for a weekend and Sunday afternoon has got a low-
1187 grade temperature, just doesn't feel right. A family member
1188 says go down to the Care Now facility, and again, they will
1189 look well until they get deathly ill.

1190 Mr. {Sosin.} Absolutely.

1191 Mr. {Burgess.} That is the problem.

1192 Mr. {Sosin.} That is why these were isolated to
1193 laboratories, and we were working directly with the
1194 laboratories, the workers, and the health departments to
1195 monitor them.

1196 Mr. {Burgess.} Well, forgive me if I am unmollified,
1197 but the problem was you didn't know what you didn't know at
1198 that point. And certainly the people in the community who
1199 may have been the doctors and nurses and the caregivers who
1200 were seeing patients wouldn't have known that this was what
1201 they were up against.

1202 I guess my concern is how do we get that information out

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1203 there? How do we make people aware? Once you know that
1204 anthrax is in the consideration, okay. Fair enough. But
1205 before you know it, they look like the last 1,500 patients
1206 that have come through the door with a viral syndrome.

1207 I do have a question that I need to ask Mr. Demske, and
1208 if we don't have time to get through all of it, maybe you can
1209 provide me an answer in writing. But when you look at the
1210 referrals for violations of the Federal Select Agent Program,
1211 CDC, NIH, United States Army Medical Research Institute of
1212 Infectious Diseases seem to be the top three. So you have an
1213 enforcement policy where you can actually find, but you don't
1214 find federal agencies. Is that correct?

1215 Mr. {Demske.} To date we have not fined any federal
1216 agencies. That's correct.

1217 Mr. {Burgess.} But that seemed--you know, that is what
1218 Willie Sutton would say. You robbed banks because that is
1219 where the money is. Right now, the violations, the multiple
1220 violators seem to be coming from those three groups. So can
1221 you get back to me in writing and discuss what you are doing
1222 to consider providing the same civil money penalties at any
1223 other lab, any other lab in the country would have to face if

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1224 they had breach of these agents.

1225 Mr. {Demske.} Just to be clear, most of the referrals
1226 and most of the labs, incidents that have been referred to
1227 us, have not involved federal entities but certainly there
1228 have been repeat instances at federal entities, and we would
1229 be happy to provide you an answer.

1230 Mr. {Burgess.} The multiple offenders at CDC, NIH, and
1231 the United States Military. That is the problem.

1232 Mr. {Murphy.} It is the civil penalties and other
1233 penalties we need to know about from there. Thank you.

1234 Mr. Tonko, you are recognized for 5 minutes.

1235 Mr. {Tonko.} Thank you, Mr. Chair. We have heard about
1236 the importance of keeping labs safe and secure. Thus I would
1237 like to explore how labs both private and public that fail to
1238 meet critical safety standards and regulations are held
1239 accountable. Both CDC and HHS, through their Offices of
1240 Inspector General have roles and enforcement. CDC's division
1241 of select agents and toxins can refer entities, the Office of
1242 Inspector, for civil money penalties or certainly notices of
1243 violation. CDC could deny, revoke, or suspend a lab's
1244 registration or require a lab to enter into a performance

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1245 improvement plan. Criminal charges can also be made in cases
1246 of misuse, unauthorized possession, or unauthorized transfer.
1247 So Dr. Sosin and Mr. Demske, could you briefly walk us
1248 through the different enforcement options and how you
1249 determine the appropriate response for a given violation?

1250 Mr. {Sosin.} Thank you for your question. You have
1251 correctly pointed out options, the administrative options the
1252 CDC has to suspend, deny, or revoke registration. The
1253 registration process itself is intended to screen and assure
1254 that there is good laboratory practice, good laboratory
1255 leadership and an appropriate use for the select agent
1256 materials.

1257 So that process and a variety of other steps in the
1258 program are intended to assure that the entity itself is
1259 taking the appropriate steps that it needs to take. The
1260 decision to suspend or revoke is one taken very seriously on
1261 the importance of balance, particularly for facility of the
1262 nature that you all are talking about here. These are
1263 important biodefense facilities doing important work, and the
1264 history of the program has been to work collaboratively with
1265 these programs to identify the specific problems and address

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1266 them. But those are options, and the referral to FBI if
1267 there is a concern about suspicious activity or referral to
1268 OIG.

1269 Mr. {Tonko.} Thank you. Mr. Demske?

1270 Mr. {Demske.} Yes. When we receive a referral from the
1271 CDC, one of our attorneys or multiple attorneys will review
1272 the allegations and the findings of the CDC, will often
1273 consult with the scientists and expert at CDC so that we make
1274 sure we understand those facts. If we believe that there has
1275 been a violation, it is our policy to then contact the entity
1276 that is the subject of the matter and give them the
1277 opportunity to provide us with information or arguments about
1278 why the penalty would not be appropriate. We take that into
1279 account, often again in consultation with CDC and decide
1280 whether to go forward with the case and we use our--looking
1281 across the experience of the cases that we have had, make a
1282 judgment about what we think the case should be valued at if
1283 we do seek a civil money penalty.

1284 Mr. {Tonko.} Now, do your offices routinely work
1285 together to take action against those who are in violation?

1286 Mr. {Demske.} We certainly communicate and work

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1287 together from our perspective to make sure that we understand
1288 the facts and the science in these matters for us to
1289 determine whether to go forward.

1290 Mr. {Tonko.} And Dr. Sosin, what types of violations
1291 would result in a lab losing its registration?

1292 Mr. {Sosin.} I can tell you that the process of
1293 revoking a registration is one that is undertaken through
1294 careful efforts to help the laboratory address the concerns
1295 and improve its practices and that revocation would come only
1296 after the inability of that facility to make those changes or
1297 their decision to no longer be interested in doing that work.
1298 I can get further clarification of the specific measures if
1299 you'd like.

1300 Mr. {Tonko.} And in your opinion, how often has that
1301 happened?

1302 Mr. {Sosin.} I believe that it has happened two times.
1303 I can get you the exact number.

1304 Mr. {Tonko.} Okay. I would also like to get a sense of
1305 the frequency of violations and actions to address them. Dr.
1306 Sosin, are you seeing any trends at the CDC in terms of
1307 enforcement actions, any trends in referrals to the Office of

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1308 Inspector General for instance or performance improvement
1309 plans or lab registration actions?

1310 Mr. {Sosin.} The Federal Select Agent Program is
1311 constantly evolving in its approaches and tools such as the
1312 corrective action plan process are relatively new and
1313 evolving. So trends are hard to evaluate in that context. I
1314 know that request of this subcommittee, specific enforcement
1315 actions have been laid out in a response and should have the
1316 kind of information you would be looking for.

1317 Mr. {Tonko.} Okay, and I am out of time, but if Mr.
1318 Demske, if you could perhaps feed the panel with that same
1319 trend that you cite, any trends that you cite, that would be
1320 helpful.

1321 Mr. {Demske.} Yes.

1322 Mr. {Tonko.} Thank you.

1323 Mr. {Murphy.} Thank you. I now recognize Mrs.
1324 Blackburn for 5 minutes.

1325 Mrs. {Blackburn.} Thank you, Mr. Chairman, and thank
1326 you to our witnesses for your patience. We appreciate this.
1327 As you know, we have got another hearing going on this
1328 morning.

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1329 Dr. Sosin, I want to come to you if I may. I have got a
1330 copy of Dr. Frieden's testimony from this committee last
1331 year, and he was testifying about the June 2014 anthrax
1332 incident. He said, and I am going to read from the
1333 testimony, and I am quoting. ``These incidents should never
1334 have happened. The lack of adequate procedures and oversight
1335 that allowed them to happen was totally unacceptable. We
1336 will explore the broader implications of these incidents and
1337 incorporate the lessons learned from them to proactively
1338 prevent future incidents at laboratories across the Nation
1339 that work with pathogens.''

1340 So I want to know, can you explain why we didn't seem to
1341 learn the lessons? Can you talk about why there is another
1342 comprehensive review of safety and security of the bioterror
1343 labs? Why was not Congress notified? Why is another review
1344 necessary? Were the problems at the CDC not corrected? And
1345 then who is going to conduct the new review? And ultimately,
1346 who do we hold responsible for this?

1347 Mr. {Sosin.} Thank you for your questions. Pardon me
1348 if I need refreshing on some of them.

1349 Mrs. {Blackburn.} I will be happy to refresh.

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1350 Mr. {Sosin.} I am sure you will. I think it is
1351 important to recognize that the oversight program is not a
1352 CDC laboratory itself. It functions separately.
1353 Nonetheless, in hindsight, there has been reason to look more
1354 closely at anthrax inactivation. There is no question that
1355 that is necessary, and before a moratorium on the use and
1356 transfer of these materials will be lifted, we will have a
1357 policy about how to validate--

1358 Mrs. {Blackburn.} Whoa, whoa, whoa. Wait a minute.
1359 That was supposed to be done. So why was it not done? Who
1360 is responsible that it did not get tended to last year?

1361 Mr. {Sosin.} The work of a complex laboratory,
1362 microbiological laboratory, has thousands of procedures and
1363 potential vulnerability.

1364 Mrs. {Blackburn.} So you are saying no one person is in
1365 charge, that it is done by committee?

1366 Mr. {Sosin.} No. I am saying that the nature, the
1367 current nature of the Federal Select Agent Program is one of
1368 setting broad standards to achieve high laboratory
1369 performance but does not review each individual specific
1370 procedure at each entity. There will need to be--

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1371 Mrs. {Blackburn.} Well, did the procedures call for
1372 notifying Congress?

1373 Mr. {Sosin.} I am sorry?

1374 Mrs. {Blackburn.} Did the procedures call for notifying
1375 Congress if you need to do a review, if you have another
1376 incident?

1377 Mr. {Sosin.} So--

1378 Mrs. {Blackburn.} So that is not a part of your best
1379 business processes?

1380 Mr. {Sosin.} I apologize if Congress was not notified
1381 regarding the review that Dr. Frieden requested we take
1382 internally of the Federal Select Agent Program at CDC. That
1383 review is not a review of CDC labs and procedures. That is a
1384 review of what opportunities we have--

1385 Mrs. {Blackburn.} Okay. Well, let me ask you this--

1386 Mr. {Sosin.} --to improve the oversight program.

1387 Mrs. {Blackburn.} --this way. Going back to his
1388 testimony where he says that it never should have happened,
1389 lack of adequate procedures, totally unacceptable, going to
1390 put the processes in place, and incorporate the lessons
1391 learned. Was this not done last year?

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1392 Mr. {Sosin.} Many things were done. This was not
1393 addressed.

1394 Mrs. {Blackburn.} So, okay. So it was not addressed?
1395 That is the answer that I wanted a yes or no. Either it was
1396 done or it was not done, and that is what we want to know.

1397 And see this is what is part of is so frustrating to the
1398 taxpayers who are footing the bill for this because you all
1399 feel like you have immunity if you will, and you don't have
1400 to move forward and do the job because you have a continuing
1401 appropriation. You just don't do the job until it is
1402 convenient.

1403 Mr. {Sosin.} Congressman, I don't believe that--

1404 Mrs. {Blackburn.} So you mess up once. You mess up
1405 twice. You mess up 86 times, and it is no skin off your back
1406 because nobody is responsible, because you operate by
1407 committee, because we ask you to do something and report back
1408 to us. What do you do, sit around and go, well, we will get
1409 around to it later? Maybe we need to give you around to it
1410 and have you go get the job done.

1411 Mr. {Sosin.} Perhaps I am misunderstanding--

1412 Mrs. {Blackburn.} The fact that we are having to have

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1413 another hearing and look at this is something that is
1414 frustrating. You should realize that there was a mistake and
1415 immediately move forward to correct the procedures and the
1416 policies and then should change the way that things are done.
1417 And I know I am running out of time, and I will yield back
1418 the balance of my time.

1419 Mr. {Sosin.} I do think it is important to clarify that
1420 the CDC error with anthrax was addressed. It was a different
1421 situation. What I did acknowledge is that as the Federal
1422 Select Agent Program, with anthrax, with inactivation, in
1423 hindsight we should have and we will address inactivation
1424 procedures before that is used again.

1425 Mr. {Murphy.} I am sure you can understand--

1426 Mr. {Sosin.} Absolutely.

1427 Mr. {Murphy.} --we have heard that before.

1428 Mr. {Sosin.} I understand.

1429 Mr. {Murphy.} Ms. Castor, you are recognized for 5
1430 minutes.

1431 Ms. {Castor.} Thank you, Mr. Chairman. Regarding the
1432 DoD review of the Dugway incident and the science surrounding
1433 inactivation protocols, the DoD review concluded that one of

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1434 the root causes of the Dugway incident was scientific
1435 uncertainty about the process of inactivating anthrax spores.
1436 The review stated that this uncertainty led to the creation
1437 of protocols that do not completely or permanently inactivate
1438 anthrax spores. And although this instant only recently
1439 raised questions about the inadequacy of these procedures,
1440 the Department knew of this uncertainty for quite a while.

1441 So Dr. Hassell, if the Department was aware of the
1442 potential inadequacy of the inactivation process using gamma
1443 irradiation, why didn't the Department have better
1444 verification procedures to ensure the spores were properly
1445 inactivated before shipping them?

1446 Mr. {Hassell.} So that is a good question because it
1447 really separates there were two issues involved. One was the
1448 inactivation was ineffective, and then the other one was that
1449 the viability testing didn't catch the fact that the first
1450 was not 100 percent effective.

1451 Regarding the inactivation, there are several scientific
1452 publications and, you know, peer-reviewed journals in the
1453 scientific literature that have shown different what we call
1454 death curves for killing anthrax. What we need to do now is

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1455 to try to pull all those together, get a consensus view of
1456 those, work with a body of subject matter experts, work in
1457 consensus with CDC and try to figure out what--

1458 Ms. {Castor.} Well, why didn't you do that before if
1459 the Department knew of this uncertainty for a while?

1460 Mr. {Hassell.} It appears that that was somewhat
1461 localized, that it wasn't universally acknowledged.

1462 Ms. {Castor.} What does that mean?

1463 Mr. {Hassell.} Well, each individual laboratory set its
1464 own standards. And so this wasn't raised up to a central
1465 body--

1466 Ms. {Castor.} And you are acknowledging now that was
1467 not acceptable. Those standards were not acceptable.

1468 Mr. {Hassell.} Was not acceptable and going forward, it
1469 will have to be done in concert so the--

1470 Ms. {Castor.} So is the DoD reviewing all of its
1471 protocols and procedures to ensure that there are not similar
1472 gaps in the scientific literature for the inactivation of
1473 other dangerous toxins and pathogens?

1474 Mr. {Hassell.} We will be doing that, definitely. We
1475 are going to take a--

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1476 Ms. {Castor.} So you are doing that for anthrax and for
1477 other toxins?

1478 Mr. {Hassell.} Right. We are going to see if there are
1479 any lessons learned from that that we can then apply across
1480 the board.

1481 Ms. {Castor.} How confident are you that people are
1482 going to take that seriously? There are gaps in science.
1483 There are discrepancies. How will you come to reconcile?
1484 Certainly you would err on the side of safety?

1485 Mr. {Hassell.} Yes, ma'am, absolutely.

1486 Ms. {Castor.} But take us through what is going to
1487 happen specifically in that review.

1488 Mr. {Hassell.} Well, anthrax is particularly hard to
1489 kill. So we are taking on the biggest challenge up front.
1490 So that should give us our biggest challenges, both in the
1491 activation and on this viability testing afterwards. Things
1492 that we learn from both of those we will then take forward
1493 and apply them.

1494 Ms. {Castor.} And when there is a difference of
1495 opinion, who is going to be the responsible party where we
1496 can go back and say, wow. We had this hearing. The DoD

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1497 said, another agency said we will address these gaps. If and
1498 when we have to have another hearing, who is it that we will
1499 identify? Or if you could provide that to the committee
1500 because there is this problem with no personal
1501 accountability, don't you agree?

1502 Mr. {Hassell.} Yes, ma'am, and the second part of this
1503 investigation we will be looking at the accountability. We
1504 will have some of those people identified, and we will
1505 certainly provide that to the committee.

1506 Ms. {Castor.} Thank you. I would like to turn to Dr.
1507 Sosin to ask some questions about the CDC's role in
1508 overseeing the Select Agent Program. Dr. Sosin, why is there
1509 such variation across labs as to how they inactivate anthrax?

1510 Mr. {Sosin.} Thank you for your question. As mentioned
1511 earlier, there are a variety of needs for materials that come
1512 from dead anthrax, and the laboratories, some research, some
1513 production for proficiency testing of labs, et cetera, have
1514 different roles and purposes as well. So CDC historically
1515 has required a validated procedure, either published and
1516 followed or validated within that laboratory and proof of
1517 sterility testing. I think to your earlier question about

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1518 accountability, the exemption of a select agent, anthrax
1519 becoming now exempt because it is dead, is a requirement of
1520 the Federal Select Agent Program. And until we have a
1521 procedure that increases confidence that we can safely do
1522 that--

1523 Ms. {Castor.} Because--

1524 Mr. {Sosin.} --we will not lift that moratorium.

1525 Ms. {Castor.} Well, I appreciate that, but you can see
1526 that we are very concerned.

1527 Mr. {Sosin.} Absolutely.

1528 Ms. {Castor.} Are we to expect similar variations in
1529 inactivation protocols for other select agents and toxins?
1530 And how do we address that?

1531 Mr. {Sosin.} As Dr. Hassell pointed out, the nature of
1532 a spore being extremely hearty and difficult to kill, plus
1533 the fact in this instance we were, or the Department of
1534 Defense was trying to kill the organisms without disrupting
1535 the organism creates a challenge in safety. The attempt now
1536 is to set an appropriately wide margin. If you go back to
1537 the chairman's figure that he showed, the DoD shows the
1538 dosing and a gap between the kill curve and the dosing. That

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1539 gap wasn't happening here. Clearly there were production
1540 runs that were growing anthrax and should have highlighted
1541 that the procedure was not adequate.

1542 Going forward we will make sure that there is a safety
1543 margin and achieve consensus with the broad input that we
1544 have opportunity to get to assure that we are taking the
1545 right margin.

1546 Ms. {Castor.} I am out of time. Thank you.

1547 Mr. {Murphy.} Thank you. Now I recognize Mr. Griffith
1548 for 5 minutes.

1549 Mr. {Griffith.} Thank you very much, Mr. Chairman. Dr.
1550 Hassell, if you could, we have got folks out there receiving
1551 this. You answered a previous question related to the
1552 foreign nations and said some of those were DoD facilities.
1553 Were they all DoD facilities? And if not DoD facilities,
1554 were all the facilities that were completely controlled by
1555 the United States Government? Yes or no.

1556 Mr. {Hassell.} No.

1557 Mr. {Griffith.} So some of these would have gone to
1558 facilities not controlled by the United States Government.
1559 How certain can we be that these folks who were receiving

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1560 live samples, and I believe it was over the course we now
1561 know of like 10 years, didn't discover this before they
1562 necessarily told us and have been out there growing some of
1563 their own samples and siphoning off some? So when we are
1564 told that you all hunted it down and you have killed or
1565 acquired all of the live anthrax, how certain of that can we
1566 be? Because it doesn't sound like to me we can be very
1567 certain if somebody was taking some of that anthrax and
1568 skimming off some of the live for use in other ways.

1569 Mr. {Hassell.} So the non-DoD facilities that you refer
1570 to, those are some of our most trusted allies. We do many
1571 things with these allies across the board, not just for
1572 chembio--

1573 Mr. {Griffith.} They are trusted, but if they wanted to
1574 do research on biological weapons, this would have given them
1575 an opportunity to acquire that or at least to acquire the
1576 base material to start the cultures with. Isn't that true?
1577 Yes or no.

1578 Mr. {Hassell.} It is true, but they were already doing
1579 most of that work. They just--we were trying to use a common
1580 material across the board so everyone was testing on the same

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1581 material so that we could compare the results that we have.

1582 Mr. {Griffith.} And how--

1583 Mr. {Hassell.} But they do have those programs already.

1584 Mr. {Griffith.} How comfortable are you with at those
1585 facilities had better protocols than we do in that we don't
1586 have some worker who might have taken what was supposed to be
1587 some dead cells, generated the live cells, and gone out with
1588 a sample that he might have then got, he or she may have then
1589 given to a foreign agent?

1590 Mr. {Hassell.} In some of those cases, they already
1591 have the material now. Like I say this was soon-to-be dead
1592 material, and we do have records that that's all been
1593 destroyed.

1594 Mr. {Griffith.} What you found has all been destroyed
1595 but since it was live, there could be more than what you knew
1596 about. Yes or no. Yes, the answer is yes. All right.
1597 Let's move on.

1598 Dr. Sosin, you said that the CDC acted reasonably in
1599 tracking down the live anthrax and then securing or killing
1600 it. Dr. Crosse, you indicated that you would give them a B
1601 once it was discovered, but Mr. Demske, you didn't get

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1602 notified until yesterday to investigate the problem that was
1603 discovered in May. Isn't that correct?

1604 Mr. {Demske.} That is correct, yes.

1605 Mr. {Griffith.} So we have got at least 60 days since
1606 the problem was discovered before you were notified. Isn't
1607 that true?

1608 Mr. {Demske.} Yes.

1609 Mr. {Griffith.} I don't consider that a B or acting
1610 reasonably. Do you?

1611 Mr. {Demske.} Well, we are not the front lines of an
1612 emergent situation. That would have to go to the FDA and
1613 with the scientists and the CDC. So it is normal or CDC to
1614 do investigative work on its own before it would refer a
1615 matter to us, and that actually helps us because the evidence
1616 is more developed when we receive it.

1617 Mr. {Griffith.} So you think 60 days is reasonable
1618 before you're notified to do your investigation?

1619 Mr. {Demske.} Yes.

1620 Mr. {Griffith.} Okay. And as a part of that, they are
1621 doing their investigations and so forth. But don't you think
1622 it is kind of interesting that you got notified yesterday?

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1623 Do you think that our hearing might have sped that time up a
1624 little bit?

1625 Mr. {Demske.} I have no information about that.

1626 Mr. {Griffith.} But when you filed your testimony, you
1627 said to date OIG has not received a referral for any more
1628 recent potential violations involving Dugway which was in
1629 reference to the 2008 and 2010 incidents.

1630 Mr. {Demske.} That is right. We submitted the
1631 testimony on Friday. At that time we had not received it. I
1632 would say--my opinion is that oversight by this committee is
1633 a very effective way at spurring attention to this matter
1634 within the government.

1635 Mr. {Griffith.} I just wish we didn't have to do it so
1636 often. Dr. Sosin, you are the acting director of National
1637 Center for Injury Prevention and Control. I noticed in the
1638 report referred to by the chairman earlier that Stephen Moore
1639 is the Acting Director of his department. What is the
1640 relationship between your two areas and why is everybody over
1641 there acting and nobody is permanent?

1642 Mr. {Sosin.} I am sorry. The information you have
1643 about my acting director role is old. I was previously for

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1644 nine months acting director there. I have been for nearly or
1645 over a decade actually the Deputy Director for the Office of
1646 Public Health Preparedness and Response. Dr. Monroe I think
1647 you are referring to is the Acting Associate Director for
1648 Laboratory Science and Safety, is an outstanding laboratory
1649 scientist who comes from the Center of Emerging Infections.

1650 Mr. {Griffith.} And he is--

1651 Mr. {Sosin.} And he is in an acting role because we are
1652 trying to hire a top-notch laboratory scientist to lead the
1653 Laboratory Safety and Science effort.

1654 Mr. {Griffith.} And do you answer to him or do you just
1655 work with him?

1656 Mr. {Sosin.} I work with him.

1657 Mr. {Griffith.} I yield back. Thank you, Mr. Chairman.

1658 Mr. {Murphy.} Mr. Pallone, you are now recognized for 5
1659 minutes.

1660 Mr. {Pallone.} Thank you. As the investigation into
1661 the Dugway incident continues, we are learning that more and
1662 more labs received these lives anthrax shipments in addition
1663 to the 86 labs to which DoD directly sent shipments. There
1664 had been additional 106 labs that received secondary

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1665 transfers. So we are now talking about nearly 200 labs. And
1666 as more labs are involved, the opportunities for error only
1667 increase.

1668 So I do want to understand whether it is necessary to
1669 have so many different labs involved with dangerous
1670 biological agents. I know Ms. DeGette mentioned this in her
1671 opening statement. So Dr. Crosse, do you have an opinion on
1672 the number of labs that are working with anthrax?

1673 Ms. {Crosse.} Well, I don't think we know the number of
1674 labs that are working with anthrax. I think that is one of
1675 the issues. Well, we have information of where the--are you
1676 talking about the--

1677 Mr. {Sosin.} I just heard entities.

1678 Ms. {Crosse.} Yes.

1679 Mr. {Sosin.} Anthrax is a select agent.

1680 Ms. {Crosse.} That is right. I am sorry. Anthrax we
1681 do know. We do not know all of the high containment
1682 laboratories that exist. We have controls for a subset of
1683 dangerous pathogens. There are other highly infectious
1684 pathogens that require a biosafety level three laboratory,
1685 and they do not all have to be registered with the Select

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1686 Agent Program. We do know for anthrax. My apologies.

1687 Mr. {Pallone.} So Dr. Crosse, GAO has recommended the
1688 establishment of the single federal entity to conduct
1689 government-wide strategic planning and oversight for high-
1690 containment labs. This would include developing national
1691 standards for designing, constructing, operating, and
1692 maintaining such labs. Can you elaborate on this
1693 recommendation?

1694 Ms. {Crosse.} Yes. We think it is important that there
1695 be a more comprehensive set of plans for how many labs are
1696 needed. You know, there have been a great increase in the
1697 number of labs over the last decade. Since the anthrax
1698 attacks in 2001, a number of different federal agencies have
1699 expanded the number of labs that they have. Academic
1700 institutions have built labs. Some states have built labs.
1701 And a lot of private entities have built labs. And they are
1702 very expensive. We don't know what really is needed.

1703 As we have heard today, they are developing their own
1704 validation procedures. And there's not necessarily an
1705 assurance of consistency. And so while inspections can be
1706 performed at that these laboratories, the kinds of reportings

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1707 of problems have only typically been going to a level above
1708 the laboratory, too. So they are not going up to the top of
1709 department or to organizations.

1710 And so I think that we are concerned that there hasn't
1711 been kind of a consistent set of standards in place, a
1712 consistent understanding of what the needs are, a consistent
1713 plan developed for where these laboratories ought to be built
1714 and maintained, and what the costs are going to be over the
1715 long term for maintaining this kind of infrastructure and
1716 whether it is in line with the needs.

1717 Mr. {Pallone.} Well, have you gotten feedback from the
1718 Federal Government agencies that operate these high-
1719 containment labs with regard to this recommendation to
1720 establish a single federal entity? I know you mentioned some
1721 obstacles to that, but what other obstacles would there be to
1722 implement it?

1723 Ms. {Crosse.} Well, you know, I think that it is not
1724 clear where that organization should be located. As we've
1725 heard today, it is difficult to retrofit this kind of control
1726 on top of an existing enterprise. Different departments want
1727 to have control over what their own needs are. Different

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1728 companies want to be able to compete for contracts from the
1729 Federal Government. And so going back and retrofitting them
1730 kind of control is complicated. We have not gotten traction
1731 on the concept of moving forward to try to centralize this
1732 control.

1733 Mr. {Pallone.} Let me just then ask again, do you
1734 believe that the establishment of these national standards
1735 and oversight might address some of the gaps that led to the
1736 recent incidents at DoD and CDC? And how could Congress help
1737 in establishing uniform standards and procedures?

1738 Ms. {Crosse.} We do believe that having more consistent
1739 lines of authority would be helpful. DoD I think in its
1740 report on the Dugway incidents has pointed out that the
1741 different laboratories handling anthrax were in different
1742 chains of command and never came together that there wasn't a
1743 sharing of information and they didn't have top-level
1744 knowledge of what was going on in these laboratories and how
1745 the procedures were being conducted. That is the type of
1746 thing we think would be helpful, and we would be happy with
1747 you and members of the committee to try to develop some kind
1748 of proposals.

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1749 Mr. {Pallone.} Thank you. Thank you, Mr. Chairman.

1750 Mr. {Murphy.} Thank you. I now recognize Dr. Bucshon
1751 for 5 minutes.

1752 Mr. {Bucshon.} Thank you, Mr. Chairman. I mean, to me
1753 this hearing is astounding, honestly. And I hate to admit
1754 but in the 4-1/2 years that I have been here, this is not the
1755 only government agencies that we are hearing, testifying in
1756 front of a Congress saying they are establishing new
1757 policies. Sorry we messed up. Sorry we did this. Sorry we
1758 did that. And you know why? Because there is no
1759 accountability. There is no accountability across the
1760 Federal Government in my view. No one is responsible.
1761 People are in there jobs for short periods of time. Dr.
1762 Hassell, you have been on your job for a year. If we really
1763 pressed you, you would say, well, I don't know. I have only
1764 been in my job for a year, so I don't know what they did
1765 before me. I mean, this is a decade-long process, and I
1766 personally get tired of hearing about how we are establishing
1767 new policies in this. This is anthrax. We should have had
1768 policies for decades. It is ridiculous.

1769 And you know, that is the problem. There is almost

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1770 contempt against congressional oversight. Every hearing I go
1771 to--and it is almost people walk out of the room and they go,
1772 well, they didn't get us this time and they can't get us.
1773 There's nothing they can do to us. That is what--I mean,
1774 this is just ridiculous.

1775 So Dr. Hassell, how can there not be standardize
1776 protocols for this in the Federal Government after decades
1777 and decades of this? How can that not happen? I mean, that
1778 is just the question I have. Dr. Hassell, how could--you
1779 made the statement. You know, we are standardizing how we
1780 deal with this. How can it not be standardized.

1781 Mr. {Hassell.} I could answer for DoD. Part of it was
1782 as noted earlier that the different chains of command has
1783 been one of the fundamental problems here because each
1784 laboratory reports up to a different chain. They meet too
1785 high up in the organization. So yes, I have been in place
1786 for a year, but I take this very personally.

1787 Mr. {Bucshon.} I am not criticizing you.

1788 Mr. {Hassell.} Right. No, no--

1789 Mr. {Bucshon.} I am just saying--

1790 Mr. {Hassell.} No, no, but I am saying I take--

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1791 Mr. {Bucshon.} In fairness, you have only been there a
1792 year. You are right. You can't be accountable for what
1793 happened 10 years ago. I agree with you.

1794 Mr. {Hassell.} But I own it now, so I take personal
1795 responsibility to work with other people in the department to
1796 make sure these things are standardized, and I will not
1797 recommend to the Undersecretary that we lift the moratorium
1798 until I am confident that we have the proper scientific basis
1799 for our operations and that we have received, we have
1800 achieved the right level of standardization--

1801 Mr. {Bucshon.} I appreciate that. The reality is is
1802 that if people are losing their jobs, this would be
1803 standardized. And Dr. Sosin, I mean, you said--they asked,
1804 how do you solve this problem? You said, well, I don't know
1805 how we solve the problem essentially is what you said in your
1806 earlier testimony.

1807 I mean, I know how to solve it. How many people across
1808 the government have been fired over this problem? Who has
1809 lost their job at CDC, at DoD? Or who is still doing the
1810 same thing, even though they literally sent a national
1811 security risk, anthrax, around the world? And as Mr.

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1812 Griffith found out, non-DoD properties. I don't care if they
1813 are allies. That doesn't matter.

1814 And not to mention the fact how many people are
1815 protected from being fired because they are part of a Federal
1816 Government union that does not allow them to be held
1817 accountable.

1818 Mr. {Sosin.} Congressman--

1819 Mr. {Bucshon.} I want to know answers.

1820 Mr. {Sosin.} I would love to have you come visit CDC
1821 and see how accountable the scientists and professional staff
1822 are at CDC. We take this incredibly seriously. There are--

1823 Mr. {Bucshon.} I am not saying that you don't--

1824 Mr. {Sosin.} There are regulations and rules--

1825 Mr. {Bucshon.} --but who has lost their jobs? Who lost
1826 their job?

1827 Mr. {Sosin.} There are regulations and rules around the
1828 use and transfer of anthrax, live anthrax. This particular
1829 incident was about an exempted material, which was not
1830 considered a select agent. And new actions will be taken to
1831 address it.

1832 Mr. {Bucshon.} What, you are going to put in some more

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1833 policies? By action, what do you mean?

1834 Mr. {Sosin.} For example--

1835 Mr. {Bucshon.} Well, for me it means--what it means to
1836 me is the people responsible for doing this lose their job.

1837 Mr. {Sosin.} For example, before a material can be
1838 considered killed, we need to have a validated procedure
1839 within the lab experience.

1840 Mr. {Bucshon.} But how--to my question, how come you
1841 haven't had that?

1842 Mr. {Sosin.} Hindsight--

1843 Mr. {Bucshon.} This is for decades.

1844 Mr. {Sosin.} --we should have had it. We have already--
1845 -I have acknowledged that in hindsight, with this organism
1846 and the vulnerability here, we should have done this before.

1847 Mr. {Bucshon.} I mean, the reality--

1848 Mr. {Sosin.} And we are going to do it now.

1849 Mr. {Bucshon.} I mean, the Federal Government hasn't
1850 known what constitutes dead anthrax until this came up? I
1851 mean, I just don't--

1852 Mr. {Sosin.} The reliance is--

1853 Mr. {Bucshon.} Failing to find why there is a problem--

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1854 Mr. {Sosin.} --testing, testing the material in the
1855 laboratory to see if there is growth. And that process in
1856 this instance failed.

1857 Mr. {Bucshon.} Okay. I yield back, Mr. Chairman.

1858 Mr. {Murphy.} Thank you. I now recognize Mr. Flores
1859 for 5 minutes.

1860 Mr. {Flores.} Okay. Thank you, Mr. Chairman. It is
1861 unfortunate that we have to have another hearing, another
1862 oversight hearing like this. You know, continuing along the
1863 theme that Dr. Bucshon raised, there was a quote in USA Today
1864 in the article that came out yesterday that says the root
1865 cause of all this is a lack of accountability. Incidents
1866 don't get reported, and consequences don't occur. And I
1867 think many of us have expressed our frustration, not only in
1868 the agencies represented here, the two agencies that are the
1869 subject of the problems, but across the government and the VA
1870 for instance. It has allowed for cover-ups on waiting lists,
1871 and only three people have been fired at the VA. Three
1872 hundred thousand people in the VA and only three have been
1873 fired. And it gets back to one of the root causes: It is
1874 too hard to fire a federal union employee.

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1875 So Dr. Hassell, of the individuals at the Dugway Proving
1876 Ground, what are the percentage of uniformed versus civilian
1877 at that facility?

1878 Mr. {Hassell.} I don't have that information, sir. I
1879 can get it to you. It is mostly civilian.

1880 Mr. {Flores.} And of the civilian, what percentage are
1881 unionized?

1882 Mr. {Hassell.} I am not sure.

1883 Mr. {Flores.} I would appreciate if you could get us
1884 responses from both of those.

1885 Mr. {Hassell.} Yes.

1886 Mr. {Flores.} And if that is the case, have you taken
1887 action against any of those employees, any civilian employer
1888 or any uniformed employee?

1889 Mr. {Hassell.} To date, no.

1890 Mr. {Flores.} Okay.

1891 Mr. {Hassell.} There is an investigation that's
1892 starting to look into this. If we do take action, we want to
1893 make sure that it is taken at the right place, to make sure
1894 that the person who is truly accountable is held accountable.

1895 Mr. {Flores.} Well, that is all real nice, but how many

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1896 mistakes are happening right now because there is no
1897 accountability? I mean, do you know today that we are not
1898 shipping other live agents around right now? Do you know
1899 that? How can you know?

1900 Mr. {Hassell.} As we pointed out, just because the
1901 anthrax itself is so hard to kill and presents such a
1902 challenge, that has been stopped. So that I can assure you
1903 is not happening.

1904 Mr. {Flores.} Okay. Anything else? What is the next
1905 one, though? Where are the other vulnerabilities? I mean,
1906 we had Ebola last year, not from you but from the CDC. I
1907 mean, Dr. Sosin, how can you be sure that we don't have any
1908 other incidents like this going out right today.

1909 Mr. {Sosin.} Certainty is hard to provide. As we
1910 understand the organism and the process of assuring its
1911 sterility. There is no evidence that these materials that
1912 are presumed inactivated are not inactivated. We have seen
1913 no evidence of a signal event, growth or disease or injury.
1914 That doesn't mean we don't take this seriously, and we don't
1915 consider whether additional procedures need to be implemented
1916 on inactivation of select agents. This is certainly going on

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1917 now with respect to anthrax and we'll apply what we would
1918 consider in a broader context for other selected agents.

1919 Mr. {Flores.} Just for the committee's sake, walk
1920 through the ownership of the different elements of the
1921 Federal Select Agent process as respects your two agencies.
1922 Can you tell me who owns what part? And I have just got a
1923 minute so can you--just give me the highlights, Dr. Sosin.

1924 Mr. {Sosin.} Well, I can tell you--

1925 Mr. {Murphy.} What parts do you own and then where do
1926 you hand off to?

1927 Mr. {Sosin.} The Federal Select Agent Program is an
1928 oversight program so the main activities that are involved
1929 and the main improvements that have been made through the
1930 execution of this program over the last 12 years includes
1931 screening and assessing facilities and staff for their
1932 suitability to work with anthrax. That means that the
1933 facility is an appropriate facility, has good laboratory
1934 practice and has appropriate rule to work with that material.
1935 If also includes the FBI's review of personnel reliability,
1936 of all of those who will be using it, includes a set of
1937 requirements to elevate biosafety and biosecurity, inventory

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1938 management, access controls, those kinds of measures. And it
1939 includes a process and an ability to detect and respond
1940 including the notification of jurisdictions that have these
1941 facilities in site including what we did here with the
1942 anthrax response, being able to go in, investigate, identify
1943 whether people are at risk, secure the samples and look into
1944 what caused them.

1945 Mr. {Murphy.} Okay. Now this process involves not only
1946 private-sector institutions as well as public-sector
1947 institutions, is that correct?

1948 Mr. {Sosin.} That is correct, for the select agents.

1949 Mr. {Murphy.} So where are you finding the best
1950 practices coming from today? I mean, Dr. Hassell was talking
1951 about going to the private sector to find best practices. So
1952 Dr. Hassell, where are we finding the best practices today?
1953 Private sector or public sector?

1954 Mr. {Hassell.} It is a combination of both. I am just
1955 saying we are going to go look at the private sector. That
1956 often doesn't happen in government as the first reaction.
1957 The Department of Defense--

1958 Mr. {Flores.} You need to look at both.

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1959 Mr. {Hassell.} The Department of Defense, the Centers
1960 for Disease Control, the NIH, these are outstanding
1961 facilities. They are doing cutting-edge, critical work which
1962 has some risk. These are places where best practices and not
1963 best practices will occur because of the broad range of
1964 practices that do occur.

1965 Mr. {Flores.} Okay. I have additional questions. I
1966 will submit them for the record later on. Thank you, Mr.
1967 Chairman.

1968 Mr. {Murphy.} Thank you. And the gentleman from
1969 Oklahoma, Mr. Mullin, is recognized for 5 minutes.

1970 Mr. {Mullin.} Thank you, Mr. Chairman. I appreciate
1971 you guys being here. I am sure you are having a blast and
1972 enjoying your time here, but it is very frustrating for me to
1973 see what has taken place and to hear you guys say you have
1974 protocols, protocols. You are looking into it. You are
1975 looking into it. How long does it take to look into this?
1976 It is really hard for me to follow this. Dr. Hassell, is it
1977 the practice of the DoD, the labs, to send out a death
1978 certificate with select agents when they leave, is that
1979 correct?

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1980 Mr. {Hassell.} It has been, yes.

1981 Mr. {Mullin.} It has been? How long has that been
1982 going on?

1983 Mr. {Hassell.} I believe--I apologize. I am not sure
1984 when the death--I think the information--

1985 Mr. {Mullin.} What kind of information is on that death
1986 certificate, the one that is similar to this one right here?

1987 Mr. {Hassell.} I am not sure how long that has been
1988 part of the process. We have been looking at just the
1989 overall activation. We have been looking at that back 12
1990 years. I am not sure at what point the death certificate was
1991 initiated. I can--I will find out.

1992 Mr. {Mullin.} Well, this dates back to 5 years ago. So
1993 we know it has been going on for at least 5 years, right?

1994 Mr. {Hassell.} Right.

1995 Mr. {Mullin.} Then why is it that the private lab that
1996 found the active anthrax, why didn't it have a death
1997 certificate with it?

1998 Mr. {Hassell.} Because when it was originally tested
1999 they didn't see growth. One of the things we are looking
2000 into--

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2001 Mr. {Mullin.} But if it shipped out--you just said it
2002 is the practice of DoD with any shipment that is leaving to
2003 have a death certificate. Why wasn't there one that was
2004 shipped to a private lab?

2005 Mr. {Hassell.} Oh, I am sorry. So for that particular
2006 operation, we were setting out blind tests. People were
2007 seeing whether or not--

2008 Mr. {Mullin.} With active anthrax in it?

2009 Mr. {Hassell.} It was a suit to see if people could
2010 detect the presence of these. This was to identify some new
2011 performers.

2012 Mr. {Mullin.} So we knowingly shipped live anthrax.

2013 Mr. {Hassell.} I am sorry, say again?

2014 Mr. {Mullin.} Well, you said you were shipping it to
2015 him to see if they could find it. It didn't have a death
2016 certificate, so I am assuming you knowingly shipped live
2017 anthrax to this private lab because it didn't have a death
2018 certificate. I forget what that--

2019 Mr. {Hassell.} No, it just--we did not provide the
2020 shipping because of what the agent was? We did not knowingly
2021 ship live agent, absolutely not.

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2022 Mr. {Mullin.} Did the shipment then have--

2023 Mr. {Hassell.} We just did not include their--

2024 Mr. {Mullin.} --at your place or some other place a

2025 death certificate?

2026 Mr. {Hassell.} Yes.

2027 Mr. {Mullin.} Who produced a death certificate?

2028 Mr. {Hassell.} The originator at Dugway.

2029 Mr. {Mullin.} And what was the test that was performed

2030 to show that it was dead? And what is the difference between

2031 the tests that the private lab showed that it was live?

2032 Mr. {Hassell.} They were very similar and--

2033 Mr. {Mullin.} Well, they couldn't have because one

2034 showed it dead, one showed it live.

2035 Mr. {Hassell.} Well, that is what we are looking at

2036 because one of the key differentiators for what Dugway did--

2037 Mr. {Mullin.} So who is responsible for that? Is that

2038 Dr. Sosin? Is that his group? Who is responsible for

2039 showing the procedures to find out that it is dead?

2040 Mr. {Hassell.} Going forward we are going to adopt the

2041 CDC's procedure.

2042 Mr. {Mullin.} No, no, no. Who is responsible for it at

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2043 that time, not going forward? Who is responsible for it at
2044 the time? If it wasn't your group, Dr. Hassell--

2045 Mr. {Hassell.} It was Dugway.

2046 Mr. {Mullin.} --whose group was it?

2047 Mr. {Hassell.} It was Dugway. They developed--

2048 Mr. {Mullin.} And who is over Dugway?

2049 Mr. {Hassell.} --the testing.

2050 Mr. {Mullin.} Who do they fall underneath? Do they
2051 fall underneath Dr. Hassell, Dr. Sosin, Dr. Demske? Who do
2052 they--who oversees Dugway?

2053 Mr. {Hassell.} The Army.

2054 Mr. {Mullin.} Okay.

2055 Mr. {Hassell.} That is why--

2056 Mr. {Mullin.} Narrow it down for me here. Help me
2057 figure out who is responsible. Who is the chain of command
2058 that is responsible for the death certificate for the
2059 procedures to show that the agent's leading is truly dead?

2060 Mr. {Hassell.} Are you talking about the chain of
2061 command at the laboratory or just for the certificate?

2062 Mr. {Mullin.} I am talking about the chain of command
2063 to find out that the anthrax is shipping out. This isn't a

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2064 hard question. Who is over finding out for sure the
2065 procedures to find that the agent is dead?

2066 Mr. {Hassell.} It would be the--

2067 Mr. {Mullin.} You don't know?

2068 Mr. {Hassell.} It would be the scientist that--

2069 Mr. {Mullin.} You don't know. Dr. Sosin, can you
2070 answer that question?

2071 Mr. {Sosin.} I can't answer--

2072 Mr. {Mullin.} Dr. Demske, can you answer that that
2073 question?

2074 Mr. {Demske.} Not specifically. I--

2075 Mr. {Mullin.} Okay. Then this brings in my last
2076 question because as I was going through the background
2077 information to prepare for this hearing, I couldn't figure it
2078 out either. There are so many different people that touched
2079 this. There is no clear line of chain of command. As a
2080 business owner, you have got to have someone responsible for
2081 something. This goes back to a line of questions that was
2082 already asked. No one can be fired because no one takes
2083 responsibility for it because no one has responsibility for
2084 it. We just assume that everybody is doing their job, and

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2085 yet we are shipping out live anthrax and no one takes
2086 responsibility for it.

2087 Dr. Hassell, you said that you were going to leave it
2088 locked down where they couldn't be shipped, for nothing to be
2089 shipped until you declared a line of command and procedures,
2090 right? How long is that going to take?

2091 Mr. {Hassell.} It is going to take a minimum of 6
2092 months we believe.

2093 Mr. {Mullin.} A minimum? If you could just find out
2094 all the players in it, you ought to be able to lay it out and
2095 put somebody in charge to oversee it.

2096 Mr. {Hassell.} I am sorry. I was referring more just
2097 to put the procedures--the scientific studies that need to
2098 identify the gaps but the--

2099 Mr. {Mullin.} My point that I am getting to is we had
2100 live anthrax shipped out. No one takes responsibility for
2101 it. When I asked question to find out who is responsible for
2102 it, no one can answer it. I think we have identified the
2103 problem. It is time for someone to take responsibility.
2104 Thank you, Mr. Chairman. I yield back.

2105 Mr. {Murphy.} Thank you, and we have Collins from New

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2106 York for 5 minutes.

2107 Mr. {Collins.} Thank you, Mr. Chairman, and maybe I
2108 should maybe help us all step back a second. Clearly a
2109 bacteria-grown agent such as anthrax or C. diff with spores,
2110 completely different than a virus, right? Easy to kill a
2111 virus. So part of the concern I have heard as one of the
2112 last questioners is we know there is a lot of biological
2113 agents, a lot of potential weapon issues going on. And I
2114 think the concern of the committee is if we have this with
2115 anthrax, might we have it with something else like SARS, like
2116 smallpox, like whatever. But that is where maybe--not to
2117 give you suggestions in your testimony. You might want to
2118 help the committee differentiate bacteria from virus, just to
2119 give them the confidence level. There is a different ball
2120 game going on.

2121 Now you use radiation because you are trying to
2122 penetrate the spore, correct? For your--you want to
2123 penetrate the spore, which is very hard. So the way that you
2124 prove it is dead, the death certificate, is you take a sample
2125 and put it in culture and try to grow it. Correct? You tell
2126 me--and you really didn't make that real clear here. I am

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2127 guessing the problem is they put it in culture for a month,
2128 and it should have been in culture for 6 months. Is it safe
2129 to assume that they just didn't run the culture test long
2130 enough?

2131 Mr. {Sosin.} We can't identify for certain whether that
2132 was an issue, but it is a possibility. Anthrax grows in
2133 culture within 2 days generally. So it is--

2134 Mr. {Collins.} No, your--it can but it can last 6
2135 months. And this is where you take something like anthrax or
2136 C. diff which is a spore, it can pop up in 5 months' time.

2137 Mr. {Sosin.} It can survive as a spore, yes.

2138 Mr. {Collins.} That is correct. So if it is surviving
2139 as a spore for 5 months and somebody is creating a death
2140 certificate after 2 months, they are saying it is dead--

2141 Mr. {Sosin.} I am sorry, Congressman. When you put a
2142 spore in a fertile environment, it germinates and grows--

2143 Mr. {Collins.} Right.

2144 Mr. {Sosin.} --and that, with anthrax, happens within
2145 45 hours, generally within 24 hours. So in a fertile
2146 environment, you would expect to see that growth.

2147 Mr. {Collins.} I can beg to differ with you. I have

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2148 some experience in this. I have seen it where it doesn't
2149 grow in a month. It doesn't grow in 2 months. And then all
2150 of a sudden in 5 months, it shows up. I would suggest
2151 respectfully that I believe the big issue here was it wasn't
2152 radiated with enough intensity, so it wasn't killed. But to
2153 validate it was dead, they put it in culture to see if it
2154 would grow. And if it was culture for 48 hours and it didn't
2155 grow and they gave it a death certificate, then I can tell
2156 you what your problem is right now. You didn't put it in the
2157 culture long enough. I think in best practices in industry,
2158 in industry best practices, you are going to see that batch
2159 sit in the refrigerator or sit in the freezer for 6 months,
2160 and you are going to have that culture, that spore in culture
2161 for 6 months, not for 48 hours. And I think you would have
2162 to agree, if it is in that culture for 6 months, it is deader
2163 than a doornail and you will have more assurance than if it
2164 is only in culture for 48 hours. And again, this is
2165 different than a virus. So I just think some of that
2166 confusion is going on here as to when is--because you do the
2167 death certificate at the lab after it has been radiated and
2168 held in isolation until the culture test is run. And then

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2169 you say okay, I didn't see anything. So it is dead. Now
2170 that entire batch is good to go as dead virus, hence
2171 exempted, et cetera, et cetera. And that is what happened.
2172 It was then shipped out exempt because it had the death
2173 certificate.

2174 But I guess the issue would be--I am assuming that is up
2175 to the lab to decide how long they are going to grow it in
2176 culture, is that correct? That is a lab procedure, not a CDC
2177 or--

2178 Mr. {Sosin.} At this point in time, the sterility
2179 testing, viability testing is a laboratory procedure, but
2180 there will be additional requirements as a result of this
2181 incident.

2182 Mr. {Collins.} And I do think--and that is what I would
2183 encourage you to do. That is why I think it falls apart.
2184 You do trust these labs to all be at the top of their game.
2185 But in best practices, and this one an example, I can assure
2186 you best practice in private industry on anthrax and on C.
2187 diff is 6 months. It is 6 months of testing so you know it
2188 is dead. It is not 48 hours. That is best practice coming
2189 out of private industry. I yield back. Thank you.

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2190 Mr. {Murphy.} Thank you. And we now recognize the
2191 congresswoman from Indiana, Mrs. Brooks, for 5 minutes.

2192 Mrs. {Brooks.} Thank you, Mr. Chairman, and thank you
2193 for holding this important hearing. And I have to say in my
2194 prior role before joining the committee, I was chair on the
2195 Subcommittee on Emergency Preparedness, Response, and
2196 Communications for Homeland Security, and it really opened my
2197 eyes to the vital need to better protect the American people
2198 and our country from bio attacks and from biodefense
2199 incidents. And I will say that at that time I learned that
2200 this administration did away with a position that had been in
2201 place under the Clinton administration, under the Bush
2202 administration, called the Special Assistant to the President
2203 for Biodefense. And I think we learned about that position
2204 being eliminated when the Ebola attack, when Ebola hit this
2205 country, and I think it kind of goes to the point of I think
2206 what Dr. Crosse is talking about is that as a government, we
2207 are not--there is no central line of authority. There is no
2208 central entity. There is no person who all of these issues
2209 bubble up to that as a government we have a massive
2210 enterprise with so many different well-intentioned,

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2211 hardworking scientists and government works. But yet, there
2212 is--when it comes to biodefense for this country, it is not
2213 organized and we are not doing a good enough job.

2214 I have to tell you that later this week we are going to
2215 be introducing legislation that addresses the need to
2216 strengthen and streamline the existing biodefense initiatives
2217 BARDA and the CDC. And so Dr. Sosin, I have a question. If
2218 lab workers or other medical professionals had been exposed
2219 to live anthrax samples, are you confident as to whether or
2220 not we would have had proper vaccines and therapeutics in
2221 place to save lives?

2222 Mr. {Sosin.} Yes, I am confident we do.

2223 Mrs. {Brooks.} Are you confident, Dr. Hassell?

2224 Mr. {Hassell.} Yes, ma'am.

2225 Mrs. {Brooks.} Okay. Mr. Demske and Dr. Cross, are you
2226 confident that we have enough proper vaccines and
2227 therapeutics in place to save lives?

2228 Mr. {Demske.} I don't have sufficient information to
2229 answer that question.

2230 Ms. {Crosse.} Nor do I.

2231 Mrs. {Brooks.} Dr. Sosin, would that be for the workers

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2232 that are being exposed or how about with respect to the
2233 community, building on Congressman Burgess' question about
2234 one of these individuals, if they had been exposed and
2235 presented to an ER. Can you, you know, explain to me what
2236 your view is if you have one about our national strategic
2237 stockpile and the coordination within the government
2238 enterprise with respect to the national stockpile.

2239 Mr. {Sosin.} Thank you for that question. The
2240 strategic national stockpile actually did provide vaccine for
2241 the states that had workers who were receiving prophylaxis.
2242 So I am confident that we have the ability to do it. We have
2243 a vast supply of countermeasures for anthrax. The nature of
2244 the event that you might be trying to prepare for always
2245 determines whether you have enough. But there have been a
2246 variety of processes and procedures to review the
2247 requirements that have been set by the Federal Government by
2248 this threat, and we meet those current requirements.

2249 Mrs. {Brooks.} Dr. Hassell, any comments on our
2250 stockpile and how we can ensure that we have the medical
2251 countermeasures in place across the board for incidents?

2252 Mr. {Hassell.} No, ma'am. That is really my

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2253 colleagues' purview.

2254 Mrs. {Brooks.} Dr. Cross and Mr. Demske, what I think
2255 this event, going back to what this event shows us, is that
2256 while we are trying to respond at a managerial level. Are
2257 you familiar with the private sector's involvement with the
2258 medical countermeasures, development, and procurement? Are
2259 either of you involved in that at all.

2260 Ms. {Crosse.} I have done some past work looking at,
2261 for example, how the Federal Government has built flexible
2262 manufacturing facilities to be able to respond, and those are
2263 private sector entities. Mr. Demske?

2264 Mr. {Demske.} I am sorry. I have nothing to add.

2265 Mrs. {Brooks.} Okay. I would like to go back to, and I
2266 guess if I could actually--I might have a little bit of time
2267 with respect to the death certificate.

2268 Building on the congressman's question about the death
2269 certificate, could both of you please explain with a little
2270 bit more detail how that process works, what is required to
2271 be placed on the death certificate, and if you are sending
2272 these spores to another lab, what is it that the one lab
2273 should have that the other lab then--what is common in

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2274 looking at the death certificate. Is the organism required
2275 to be listed or it is not listed when you do this sample
2276 blind test? Can you please go into a bit more detail? I am
2277 sorry my time is up, but I would ask if we might have just a
2278 couple of more minutes?

2279 Mr. {Murphy.} One more.

2280 Mrs. {Brooks.} One more minute?

2281 Mr. {Murphy.} You will have to yield.

2282 Mrs. {Brooks.} And then if you could please submit any
2283 further explanation in writing?

2284 Mr. {Hassell.} So it might be, if I may, we can submit
2285 a more fuller explanation of how that is used. I will say
2286 though, we are considering not using a death certificate in
2287 our current operation. At least we are reevaluating that
2288 because it may send the wrong message. So that is one thing
2289 when I worked more with my colleagues about that very issue
2290 because we have concerns about what message that sends.

2291 Mrs. {Brooks.} Dr. Sosin?

2292 Mr. {Sosin.} The laboratory itself makes the
2293 determination about death certificates and the sending
2294 process. That is not a select agent regulation or

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2295 requirement.

2296 Mrs. {Brooks.} Okay. Thank you. I yield back.

2297 Mr. {Murphy.} Thank you.

2298 Ms. {DeGette.} Chairman, I would like to strike the
2299 last word.

2300 Mr. {Murphy.} We have one more--

2301 Ms. {DeGette.} Oh, okay.

2302 Mr. {Murphy.} We have one more on this. The chair now
2303 recognizes the congressman from North Carolina, Mr. Hudson.

2304 Ms. {DeGette.} Sorry.

2305 Mr. {Hudson.} Thank you, Mr. Chairman, and thanks to
2306 the panel for bearing with us here until the end. Would you
2307 like to expand on that answer at all, my colleagues question
2308 about the death certificates and the practice? Were you able
2309 to fully answer that?

2310 Mr. {Sosin.} For myself, I need to get some more detail
2311 on that and give a better answer to that for all three of you
2312 that were interested in that issue.

2313 Mr. {Hudson.} Okay. I offer you some time if you got
2314 anything else you want to say.

2315 Mr. {Sosin.} No. I know that CDC does issue a death

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2316 certificate with materials, inactivated materials that it
2317 sends out on the occasions when it needs to. I do not know
2318 the particular details of that death certificate.

2319 Mr. {Hudson.} Well, I would appreciate it if you all
2320 would follow up with that because my understanding is DoD in
2321 particular, it is common practice to send the death
2322 certificate, even when you are doing this sort of blind
2323 sample. And in this case, it wasn't sent until much later.
2324 So I would love to see a little more thorough answer on that.
2325 So thank you for that.

2326 Overall, if anyone on the panel wants to, I am trying to
2327 grasp the mission of the Federal Select Agent Program, your
2328 understanding of the mission of the program, and do you think
2329 it is being fulfilled? I would open that up to anybody.

2330 Mr. {Sosin.} Well, clearly the incidents that you have
2331 seen are serious, are the kinds of indicators that we need to
2332 do more, and I think the important message from us is that
2333 over the history of this program, since the regulations, the
2334 authorization in 2002 and the new regs in 2003, this program
2335 has continued to receive input and advice from a broad
2336 spectrum which is needed, advice from Congress, advice from

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2337 the public, advice from federal and non-federal entities to
2338 improve the program. And the program has changed and
2339 improved over time.

2340 That said, this incident and these incidents have
2341 elevated the importance of some procedures requiring more
2342 direct oversight and review, and we will address that.

2343 So there is a broad question, and many of those
2344 questions about BSL-3 that are not select agent, questions
2345 about how many labs. These are important, critical policy
2346 questions. Congress has an important role to play in them.
2347 The federal interagency has an important role to play in
2348 them. CDC will contribute to the debate about the pros and
2349 cons of the different approaches. But when consensus is
2350 achieved or direction is given, we will follow those
2351 directions.

2352 Mr. {Hudson.} So in your opinion, the mission is worthy
2353 and salvageable I guess to try and use laymen's terms?

2354 Mr. {Sosin.} Absolutely.

2355 Mr. {Hudson.} Okay.

2356 Mr. {Sosin.} We are committed to this work.

2357 Mr. {Hudson.} Dr. Hassell, you know, the Dugway has had

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2358 problems in the past, continues to have problems, you know.

2359 It has been referenced plenty of times here today. Just in

2360 summation, how does this continue to keep happening and how

2361 do you see us getting out of this cycle?

2362 Mr. {Hassell.} So I mentioned earlier that this falls

2363 under the Army. So speaking on their behalf, I can tell you

2364 that the Army takes this very seriously, at the highest

2365 level. Now that is something that sounds easy to say, but I

2366 can assure you, in my interactions with them, this is taken

2367 very personally and very seriously at the highest level. So

2368 the Secretary of the Army on down is taking action on this.

2369 They are going to look at issues specific to Dugway but not

2370 limiting it to that, looking at the chain of command across

2371 the board. And it is not just so that this could be a better

2372 reporting chain up. There may be opportunities that arise

2373 from this for better interaction across from them. The

2374 laboratory at USAMRIID for example may have some

2375 capabilities. Perhaps the organizational structure was

2376 preventing them, their free flow of information. I am not

2377 sure that is the case, but I am hoping that is some of the

2378 outfall from this. But you know, just getting all the

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2379 laboratories working better together, standardizing where it
2380 is appropriate, and then moving forward.

2381 Mr. {Hudson.} Well, I appreciate that. I guess I would
2382 offer this up to the GAO or the OIG. What existing tools
2383 does CDC have that it is currently not using that would allow
2384 it to better oversee and take corrective actions against labs
2385 that commit violations? Either one of you.

2386 Ms. {Crosse.} Well, we have a concern that the
2387 reporting when incidents occur is really just to one level up
2388 from the laboratory and that more senior management in an
2389 organization is not necessarily informed, that the Select
2390 Agent Program is really focused, you know, within that
2391 laboratory but not necessarily ensuring that accountability
2392 up the chain of command over that laboratory is occurring.
2393 You know, we also are just undertaking work at the request of
2394 this committee to look at inactivation procedures and the
2395 extent to which there are scientific questions for how that
2396 should be done, where there are best practices, what types of
2397 methods are being used, how that information is shared, you
2398 know, what the current scientific issues are, and how the
2399 methods are validated and whether that information is being

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2400 shared across this enterprise. And that is a concern that
2401 clearly labs have been operating on their own, and the
2402 information has not been being shared across the enterprise.

2403 Mr. {Hudson.} I appreciate that. Mr. Chairman, I am
2404 out of time. If you wouldn't mind maybe answering in writing
2405 if you have just a summary of some of the tools, I would
2406 appreciate your testimony as well. Thank you, Mr. Chairman.
2407 I yield back.

2408 Mr. {Murphy.} Thank you. And before we conclude, I
2409 think Ranking Member DeGette, you had a question?

2410 Ms. {DeGette.} Yeah, thank you, Mr. Chairman. I just
2411 wanted to thank the witnesses for coming and also relay a
2412 conversation I had with Chairman Murphy which is I am really
2413 urging him to have a hearing later this fall, towards the end
2414 of the year, after you all have figured out what your
2415 improvements in the standardization and the oversight are
2416 going to be. What I have found during my many years on this
2417 committee is when we have some crisis like this, the
2418 witnesses come in. They say we need to do better. OIG and
2419 GAO come in and say there are things that can be done, and
2420 then another year goes by and we have another breach. So I

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2421 have urged the chairman and I think he is in agreement to
2422 really hold your feet to the fire to make sure that these
2423 improvements, these gaps that you have identified are filled,
2424 that the standards and the coordination, the plans are
2425 completed. And I believe he will have that hearing, and on
2426 both sides of the aisle, we would agree that needs to be
2427 done. Thank you very much.

2428 Mr. {Murphy.} And I would also ask hopefully, when we
2429 talk to them, that we also have some accountability. You
2430 have heard several of the questions have been about how many
2431 people are going to lose their job over every fail over the
2432 last 10 years on this. So I think that is something that we
2433 are going to be looking for is to see how many people have
2434 lost their job as a result of this unaccountability.

2435 So with that, in conclusion, I would like to thank all
2436 the witnesses and the members that participated in today's
2437 hearing. I remind members that they have 10 business days to
2438 submit questions for the record, and I ask that all witnesses
2439 all agree to respond promptly to those questions. And with
2440 that, the subcommittee is adjourned.

2441 [Whereupon, at 12:09 p.m., the Subcommittee was

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2442 adjourned.]